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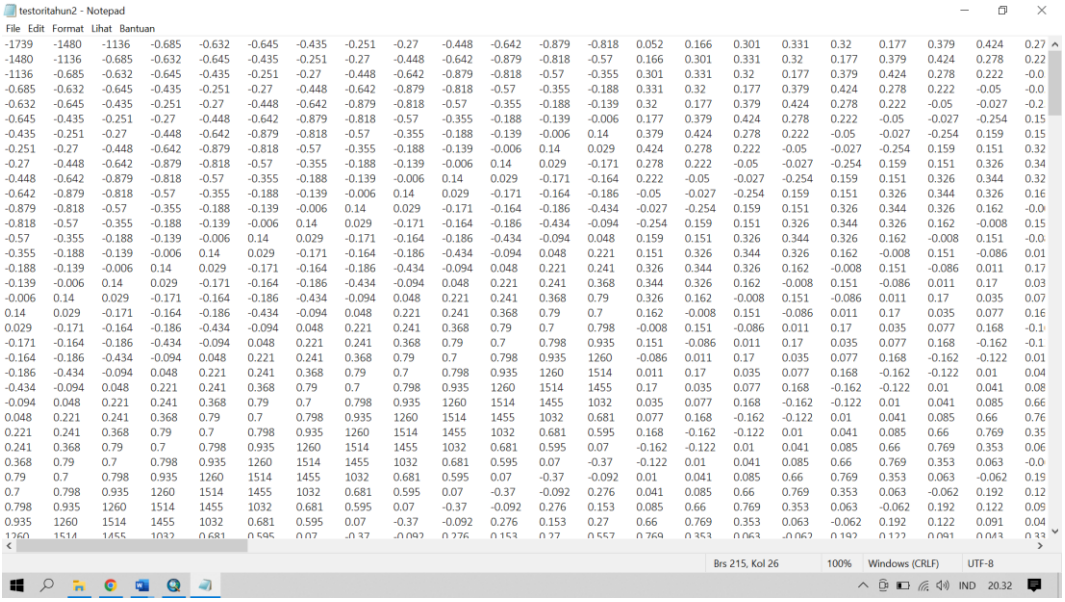
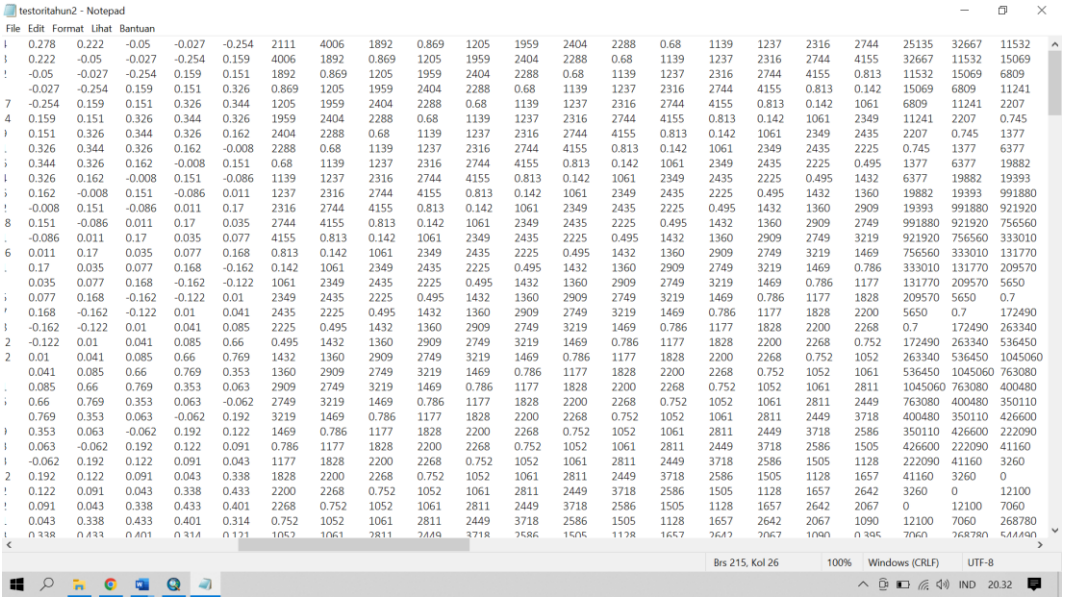
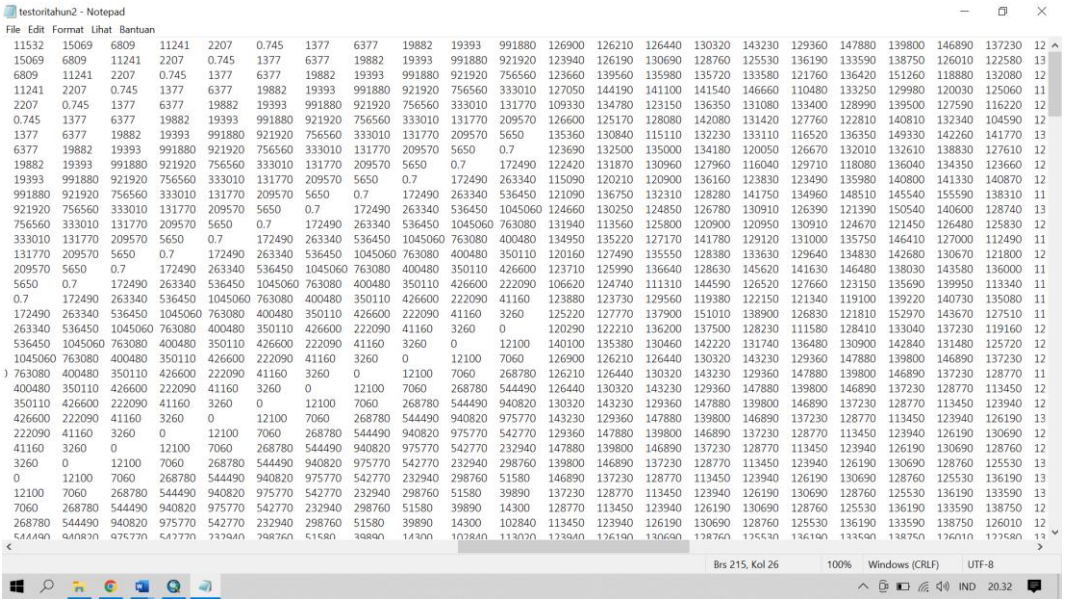
LAMPIRAN

Lampiran 1. File txt data prediktor bebas dan terikat



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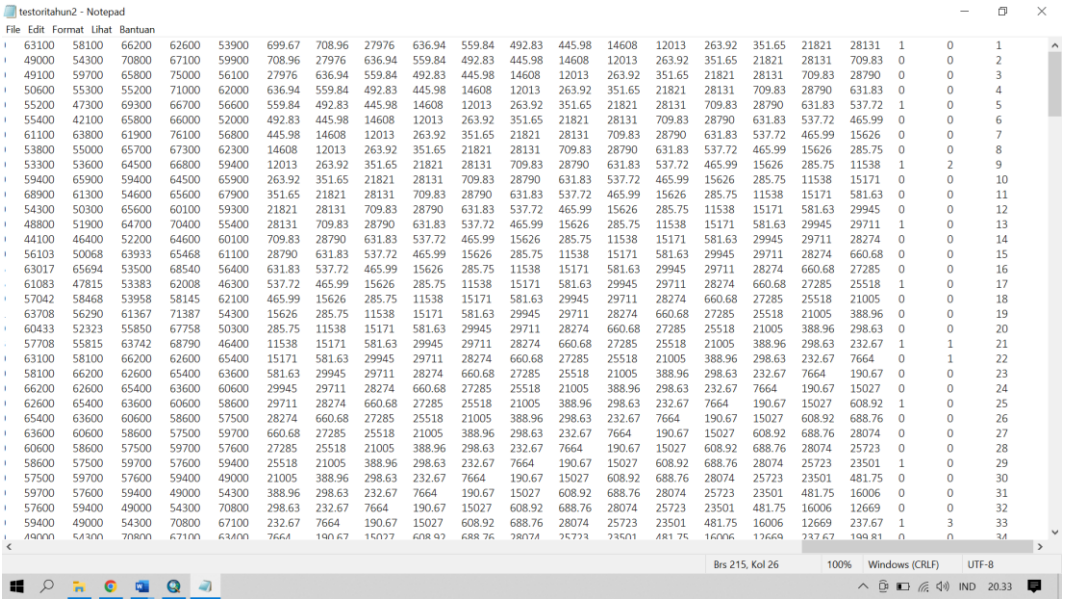
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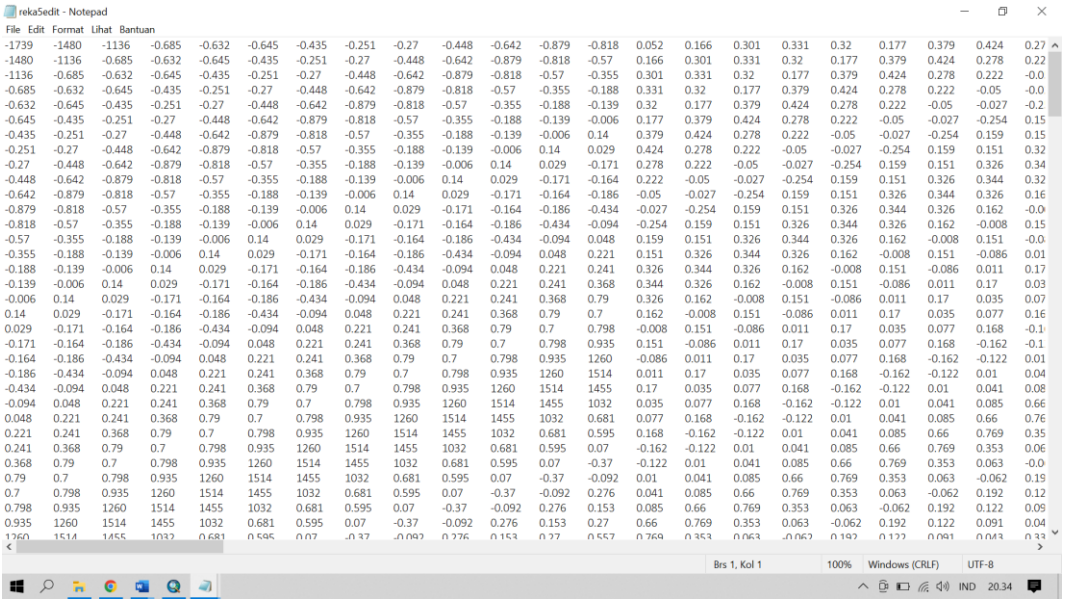
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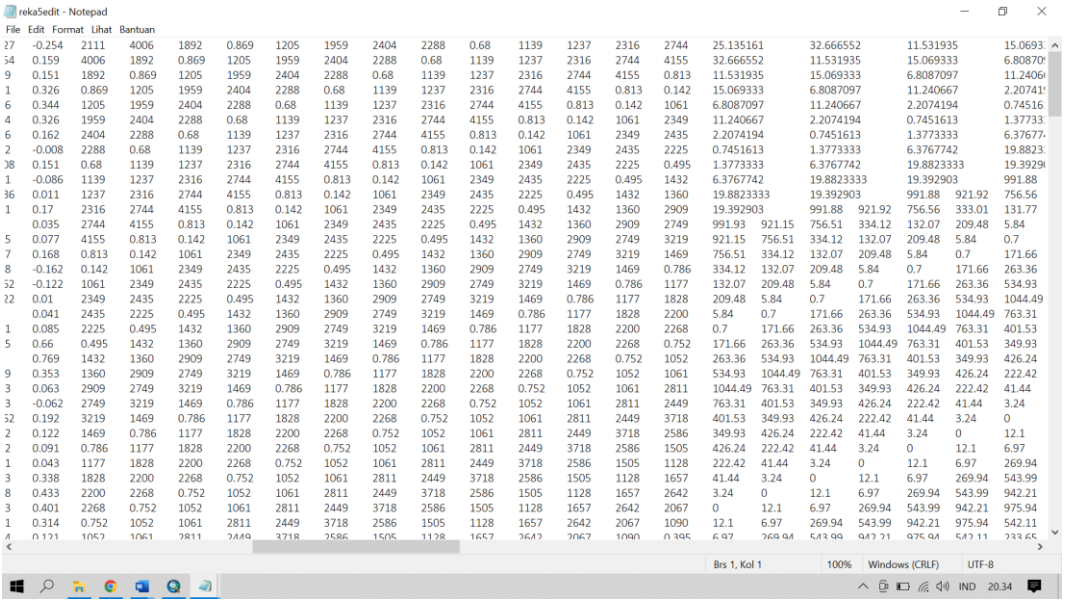
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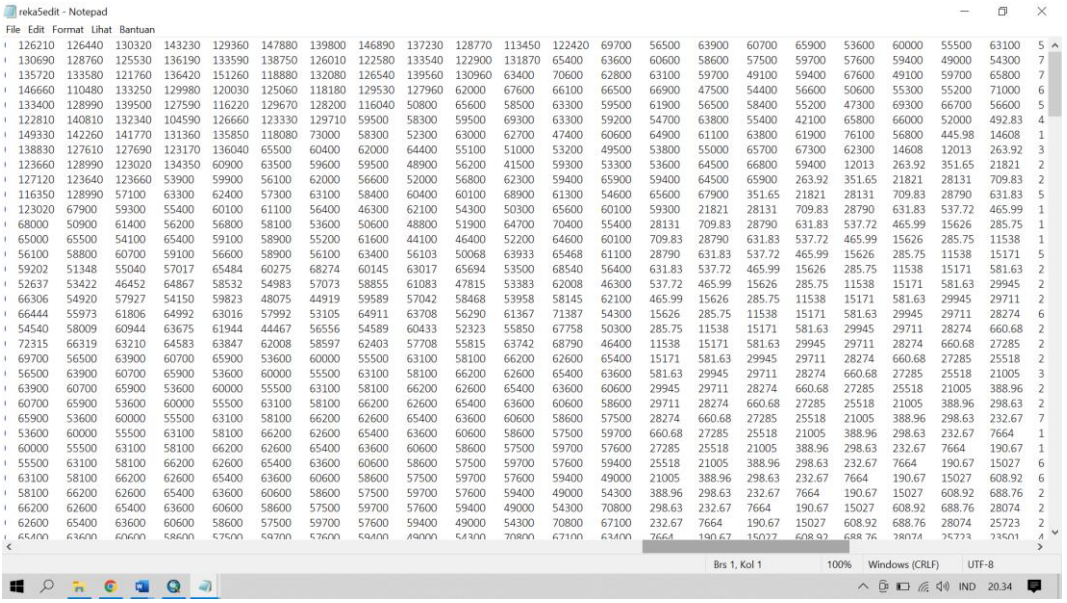
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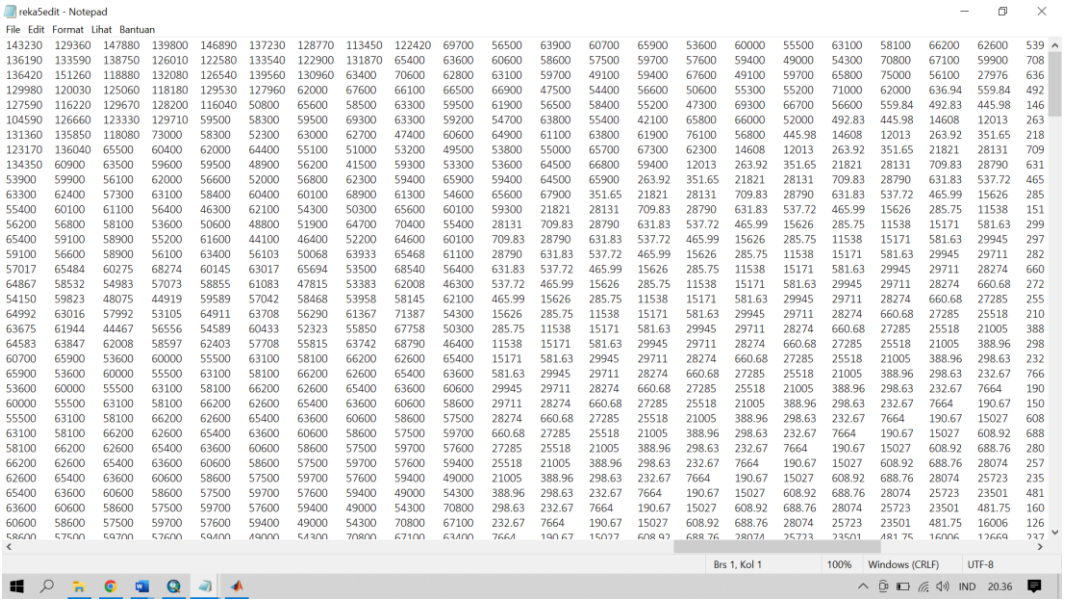
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Lampiran 2. Script Matlab untuk kabupaten Maros

```
%Stepwise model for atmosfir_hotspot
%halmar halide,hydrometeorology lab geophysics dept. fmipa unhas, makassar 18/10/2021 data skripsi komang
%SCRIPT HOTSPOT MAROS
clear
clf
load testoritahun2.txt %  92 events, (ENSO(13 each), IOD(13),Monsoon(13),RF (13),CC(13), FR (13) MS (13) PJ (1) ), 1 output (hotspot freq)
factors=testoritahun2(:,1:92);
hotspot=testoritahun2(:,93);
tahun=testoritahun2 (:,94);
mdl = stepwiselm(factors,hotspot,'PEnter',0.05);
%exitt
%output
%mdl =
% Linear regression model:
%     y ~ 1 + x3*x6 + x3*x16 + x3*x31 + x6*x33 + x6*x92 + x16*x33 + x16*x72
%     + x27*x31 + x27*x81 + x27*x88 + x27*x89 + x27*x92 + x31*x72 + x33*x89
%     + x33*x92 + x51*x72 + x72*x81 + x72*x92
%
% Estimated Coefficients:
%                     Estimate         SE        tStat       pValue
%                    ____________    ____________    _______    ____________
%
%     (Intercept)            1.1732        0.56173       -2.0885      0.03796
%     x3      Enso3         -0.00017137    9.8571e-05    -1.7385      0.083594
%     x6      Enso6          0.00015976    7.6716e-05     2.0825      0.038511
%     x16     Iod3           0.010785      0.0035617      3.028       0.0027717
%     x27     Monsun1        0.00021862    6.4368e-05     3.3964      0.00081731
```

% x31 Monsun5 0.00080412 0.0002255 3.5659 0.0004495

% x33 Monsun7 -5.0342e-05 3.806e-05 -1.3227 0.18738

% x51 RF12 -1.7465e-06 7.897e-07 -2.2116 0.028077

% x72 FR7 1.5017e-05 9.8119e-06 1.5305 0.12741

% x81 MS3 3.8869e-05 1.1858e-05 3.2778 0.001225

% x88 MS10 4.2721e-06 8.3825e-07 5.0965 7.7274e-07

% x89 MS11 -3.1831e-06 3.3938e-06 -0.9379 0.34938

% x92 PJ 1.6321 0.51555 3.1657 0.0017783

% x3:x6 Enso3:Enso6 -1.5865e-07 3.9007e-08 -4.0671 6.7425e-05

% x3:x16 Enso3:Iod3 0.0009515 0.00018832 5.0526 9.49e-07

% x3:x31 Enso3:Monsun5 -6.0067e-08 3.2419e-08 -1.8528 0.06532

% x6:x33 Enso6:Monsun7 -9.8668e-08 2.9703e-08 -3.3218 0.0010557

% x6:x92 Enso6:PJ -0.00046787 9.6551e-05 -4.8458 2.4548e-06

% x16:x33 Iod3:Monsun7 6.4585e-07 2.5258e-07 2.557 0.011268

% x16:x72 Iod3:FR7 -2.0535e-07 5.7657e-08 -3.5616 0.00045649

% x27:x31 Monsun1:Monsun5 -5.9116e-08 2.6168e-08 -2.2591 0.024911

% x27:x81 Monsun1:MS3 -3.6005e-09 1.5166e-09 -2.374 0.018502

% x27:x88 Monsun1:MS10 -1.4868e-09 6.8418e-10 -2.1731 0.030899

% x27:x89 Monsun1:MS11 -1.5528e-09 6.9306e-10 -2.2405 0.026108

% x27:x92 Monsun1:PJ -0.00047511 5.111e-05 -9.2958 1.991e-17

% x31:x72 Monsun5:FR7 -1.1041e-08 3.9328e-09 -2.8074 0.005467

% x33:x89 Monsun7:MS11 3.6185e-09 1.6783e-09 2.156 0.032223

% x33:x92 Monsun7:PJ 0.00042047 6.6985e-05 6.2771 1.9607e-09

% x51:x72 RF12:FR7 2.5986e-11 1.3123e-11 1.9803 0.048985

% x72:x81 FR7:MS3 -5.4957e-10 2.25e-10 -2.4426 0.015414

% x72:x92 FR7:PJ -2.0654e-05 8.8185e-06 -2.3421 0.020116

% ENSO = 1-13

% IOD = 14-26

% MONSUN = 27-39

% RF = 40-52

% CC = 53-65

% FR = 66-78

% MS = 79-91

% PJ = 92

tetapan=-1.1732 ;k_enso3=-0.00017137;k_enso6=0.00015976;k_iod3=0.010785;k_monsun1=-0.00021862;
k_monsun5=0.00080412;k_monsun7=-5.0342e-05;k_rf12=-1.7465e-06;k_fr7=1.5017e-05;k_ms3=3.8869e-05;
k_ms10=4.2721e-06;k_ms11=-3.1831e-06;k_pj=1.6321;k_xa=-1.5865e-07;k_xb=0.0009515;k_xc=-6.0067e-08;
k_xd=-9.8668e-08;k_xe=-0.00046787;k_xf=6.4585e-07;k_xg=-2.0535e-07;k_xh=-5.9116e-08;
k_xi=-3.6005e-09;k_xj=-1.4868e-09;k_xk=-1.5528e-09;k_xl=-0.00047511;k_xm=-1.1041e-08;
k_xn=3.6185e-09;k_xo=0.00042047;k_xp=2.5986e-11;k_xq=-5.4957e-10;k_xr=-2.0654e-05;

enso3=factors(:,3);enso3z=enso3-mean(enso3)./std(enso3);
enso6=factors(:,6);enso6z=enso6-mean(enso6)./std(enso6);
iod3=factors(:,16);iod3z=iod3-mean(iod3)./std(iod3);
monsun1=factors(:,27);monsun1z=monsun1-mean(monsun1)./std(monsun1);
monsun5=factors(:,31);monsun5z=monsun5-mean(monsun5)./std(monsun5);
monsun7=factors(:,33);monsun7z=monsun7-mean(monsun7)./std(monsun7);
rf12=factors(:,51);rf12z=rf12-mean(rf12)./std(rf12);
fr7=factors(:,72);fr7z=fr7-mean(fr7)./std(fr7);
ms3=factors(:,81);ms3z=ms3-mean(ms3)./std(ms3);
ms10=factors(:,88);ms10z=ms10-mean(ms10)./std(ms10);
ms11=factors(:,89);ms11z=ms11-mean(ms11)./std(ms11);
pj=factors(:,92);pjz=pj-mean(pj)./std(pj);
xa=enso3.*enso6;xaz=xa-mean(xa)./std(xa);
xb=enso3.*iod3;xbz=xb-mean(xb)./std(xb);
xc=enso3.*monsun5;xcz=xc-mean(xc)./std(xc);

```
xd=enso6.*monsun7;xdz=xd-mean(xd)./std(xd);
xe=enso6.*pj;xez=xe-mean(xe)./std(xe);
xf=iod3.*monsun7;xfz=xf-mean(xf)./std(xf);
xg=iod3.*fr7;xgz=xg-mean(xg)./std(xg);
xh=monsun1.*monsun5;xhz=xh-mean(xh)./std(xh);
xi=monsun1.*ms3;xiz=xi-mean(xi)./std(xi);
xj=monsun1.*ms10;xjz=xj-mean(xj)./std(xj);
xk=monsun1.*ms11;xkz=xk-mean(xk)./std(xk);
xl=monsun1.*pj;xlz=xl-mean(xl)./std(xl);
xm=monsun5.*fr7;xmz=xm-mean(xm)./std(xm);
xn=monsun7.*ms11;xnz=xn-mean(xn)./std(xn);
xo=monsun7.*pj;xoz=xo-mean(xo)./std(xo);
xp=rf12.*fr7;xpz=xp-mean(xp)./std(xp);
xq=fr7.*ms3;xqz=xq-mean(xq)./std(xq);
xr=fr7.*pj;xrz=xr-mean(xr)./std(xr);

% standardized variables dan unstandardized variables
% Y=hotspot;
% Xz=[enso11z enso10z enso2z nao3z nao0z pdo11z salt0z ssn0z]; %standardized variables
% X=[ones(size(enso11))  enso11 enso10 enso2 nao3 nao0 pdo11 salt0 ssn0];%unstandardized
variables.


%standardized variabels
Y=hotspot;X=[enso3z enso6z iod3z monsun1z monsun5z monsun7z rf12z fr7z ms3z ms10z ms11z
pjz];
[B,BINT] = regress(Y,X)
%exitt
%standardized coeffs B, strength:
%A standardized beta coefficient compares the strength of the effect of each individual independent
```

```
%variable to the dependent variable. The higher the absolute value of the beta coefficient, the stronger
the effect.
% B =
%
%    -0.0000 enso3z    5
%    -0.0002 enso6z    3
%     0.0005 iod3z     2
%    -0.0001 monsun1z  4
%     0.0002 monsun5z  3
%     0.0002 monsun7z  3
%    -0.0000 rf12z     5
%    -0.0000 fr7z      5
%     0.0000 ms3z      5
%     0.0000 ms10z     5
%     0.0000 ms11z     5
%     0.4472 pjz       1


 hotspot_obs=hotspot;
hotspot_mod=round(tetapan+k_enso3.*enso3+k_enso6.*enso6+k_iod3.*iod3+k_monsun1.*monsun1
+k_monsun5.*monsun5+k_monsun7.*monsun7+k_rf12.*rf12+k_fr7.*fr7+k_ms3.*ms3+k_ms10.*ms
10+k_ms11.*ms11+k_pj.*pj+k_xa.*xa+k_xb.*xb+k_xc.*xc+k_xd.*xd+k_xe.*xe+k_xf.*xf+k_xg.*xg
+k_xh.*xh+k_xi.*xi+k_xj.*xj+k_xk.*xk+k_xl.*xl+k_xm.*xm+k_xn.*xn+k_xo.*xo+k_xp.*xp+k_xq.
*xq+k_xr.*xr);
% [m,n]=size(hotspot_mod);


figure(1);
% plot(tahun,hotspot_obs,'-ob',tahun,hotspot_mod,'-r');
plot(tahun,hotspot_obs,'ob',tahun,hotspot_mod,'xr');
%plot(tahun,yo,'-o',tahun,y3,'-r')
```

```
title('Grafik Model Prediksi Kejadian Hotspot Pada Kawasan Sawah di Maros 2001-2020');
legend('Data Observasi','Data Prediksi')
% grid on
%legend('Data Observasi','Data Prediksi 3')
xlabel('Month');
ylabel('Hotspot');



satu=ones(size(hotspot_obs));

[m,n]=size(hotspot_obs);
time=1:m;

t=1:m;

%exitt
t=1:m;

data=hotspot_obs;
tetha=45;
R=[cosd(tetha) sind(tetha);-sind(tetha) cosd(tetha)];

p1s=hotspot_mod;
dp1s=[hotspot_obs(t) p1s(t)];
nip1s=(R*dp1s');
jp1s=nip1s(:,2);
jrk_p1s=norm(jp1s);
sjp1s=std(jp1s);
RMSE_pre1 = sqrt(mean((p1s(t)-hotspot_obs(t)).^2));
korr_pre1=xcorr(p1s(t),hotspot_obs(t),'coeff');
```

```
k_pre1=korr_pre1(m);
%exitt

% axis('square')
% xa=min(hotspot_obs):max(hotspot_obs);
% ya=min(hotspot_obs):max(hotspot_obs);
axis('square')
xa=-1:6;
ya=-1:6;




figure(2);
plot(data,hotspot_mod,'o'),hold on
plot(xa,ya,'r:','LineWidth',2),hold on
xlabel('Data Observasi')
ylabel('Data Prediksi')
title('Grafik Scatterplot Kejadian Hotspot Pada Kawasan Sawah di Maros 2001-2020');
text(0.1,4.8,'r=0.784')
text(0.1,4.5,'RMSE = 0.335')
axis([-0.2 5.2 -0.2 5.2])
% axis([min(hotspot_obs) max(hotspot_obs) min(hotspot_obs) max(hotspot_obs)])
%print -dtiff korelasi1.tif
```

Lampiran 3. Script Matlab untuk kabupaten Pangkajene Kepulauan

```
%Stepwise model for atmosfir_hotspot
%halmar halide,hydrometeorology lab geophysics dept. fmipa unhas, makassar 18/10/2021 data
skripsi komang
%SCRIPT HOTSPOT PANGKEP
clear
```

```
clf
load reka5edit.txt %  92 events, lag-predictors (ENSO(13 each), IOD(13),Monsoon(13),RF
(13),CC(13), FR (13) MS (13) PJ (1) ), 1 output (hotspot freq)
factors=reka5edit(:,1:92);
hotspot=reka5edit(:,93);
tahun=reka5edit(:,94);
mdl = stepwiselm(factors,hotspot,'PEnter',0.05);
% exitt
%output
%mdl =
% Linear regression model:
%     y ~ 1 + x5 + x7 + x48 + x28*x47 + x28*x67 + x28*x81 + x31*x47 + x31*x81 + x33*x44 +
x33*x81 + x33*x90 + x44*x81 + x47*x81
% Estimated Coefficients:
%                        Estimate         SE         tStat       pValue
%                    ____________    ____________    _______    ____________
%
%    (Intercept)           2.094         0.42187        4.9636     1.3942e-06
%    x5  enso5          -0.00012647    4.7378e-05    -2.6693     0.008173
%    x7  enso7           0.00010943    4.6551e-05     2.3508     0.019624
%    x28 monsun2          -0.00078857    0.0002098     -3.7586     0.00021939
%    x31 monsun5          -0.00012788    4.7057e-05    -2.7175     0.0071067
%    x33 monsun7          -0.0001013     4.1685e-05    -2.4301     0.015904
%    x44 rf5              0.00080623    0.00018001     4.4788     1.2107e-05
%    x47 rf8              0.00030957    0.00029476     1.0502     1.3012e-05
%    x48 rf9             -0.00029319    0.0001042     -2.8137     0.0053449
%    x67 fr2             -2.6326e-05    6.297e-06     -4.1807     4.2091e-05
%    x81 ms3              -3.5827e-05    6.2865e-06    -5.6991     3.8816e-08
%    x90 ms12             -7.3303e-06    3.03e-06      -2.4192     0.016374
%    x28:x47 monsun2:rf8    -1.8796e-07    1.0678e-07    -1.7602     0.079777
%    x28:x67 monsun2:fr2     1.1771e-08    3.2925e-09     3.575      0.00043122
```

```
%     x28:x81 monsun2:ms3     5.5681e-09    2.1476e-09     2.5926     0.010169
%     x31:x47 monsun5:rf8     2.0481e-07    8.5083e-08     2.4072     0.016907
%     x31:x81 monsun5:ms3     8.5449e-09    1.5863e-09     5.3866     1.8548e-07
%     x33:x44 monsun7:rf5    -2.3989e-07    7.0178e-08    -3.4183     0.00075186
%     x33:x81 monsun7:ms3     5.9065e-09    1.8453e-09     3.2008     0.0015749
%     x33:x90 monsun7:ms12    4.5732e-09    1.2508e-09     3.6563     0.00032077
%     x44:x81 rf5:ms3        -1.9079e-08    6.7804e-09    -2.8139     0.0053424
%     x47:x81 rf8:ms3         3.0562e-08    5.0087e-09     6.1018     4.7331e-09
%
%
% Number of observations: 240, Error degrees of freedom: 218
% Root Mean Squared Error: 0.301
% R-squared: 0.551,  Adjusted R-Squared 0.508
% F-statistic vs. constant model: 12.7, p-value = 1.48e-27

% ENSO = 1-13
% IOD = 14-26
% MONSUN = 27-39
% RF = 40-52
% CC = 53-65
% FR = 66-78
% MS = 79-91
% PJ = 92

tetapan=2.094 ;k_enso5=-0.00012647;k_enso7= 0.00010943;k_monsun2=-0.00078857;k_monsun5=-
0.00012788;
k_monsun7=-0.0001013;k_rf5=0.00080623;k_rf8= 0.00030957;k_rf9=-0.00029319; k_fr2=-2.6326e-
05;
k_ms3=-3.5827e-05;k_ms12= -7.3303e-06;k_xa=-1.8796e-07;k_xb=1.1771e-08;k_xc=5.5681e-09;
k_xd=2.0481e-07;k_xe= 8.5449e-09;k_xf=-2.3989e-07;k_xg=5.9065e-09;k_xh=4.5732e-09;k_xi=-
1.9079e-08;
```

```
k_xj=3.0562e-08;

enso5=factors(:,5);enso5z=enso5-mean(enso5)./std(enso5);
enso7=factors(:,7);enso7z=enso7-mean(enso7)./std(enso7);
monsun2=factors(:,28);monsun2z=monsun2-mean(monsun2)./std(monsun2);
monsun5=factors(:,31);monsun5z=monsun5-mean(monsun5)./std(monsun5);
monsun7=factors(:,33);monsun7z=monsun7-mean(monsun7)./std(monsun7);
rf5=factors(:,44);rf5z=rf5-mean(rf5)./std(rf5);
rf8=factors(:,47);rf8z=rf8-mean(rf8)./std(rf8);
rf9=factors(:,48);rf9z=rf9-mean(rf9)./std(rf9);
fr2=factors(:,67);fr2z=fr2-mean(fr2)./std(fr2);
ms3=factors(:,81);ms3z=ms3-mean(ms3)./std(ms3);
ms12=factors(:,90);ms12z=ms12-mean(ms12)./std(ms12);
xa=monsun2.*rf8;xaz=xa-mean(xa)./std(xa);
xb=monsun2.*fr2;xbz=xb-mean(xb)./std(xb);
xc=monsun2.*ms3;xcz=xc-mean(xc)./std(xc);
xd=monsun5.*rf8;xdz=xd-mean(xd)./std(xd);
xe=monsun5.*ms3;xez=xe-mean(xe)./std(xe);
xf=monsun7.*rf5;xfz=xf-mean(xf)./std(xf);
xg=monsun7.*ms3;xgz=xg-mean(xg)./std(xg);
xh=monsun7.*ms12;xhz=xh-mean(xh)./std(xh);
xi=rf5.*ms3;xiz=xi-mean(xi)./std(xi);
xj=rf8.*ms3;xjz=xj-mean(xj)./std(xj);

% standardized variables dan unstandardized variables
% Y=hotspot;
% Xz=[enso11z enso10z enso2z nao3z nao0z pdo11z salt0z ssn0z]; %standardized variables
% X=[ones(size(enso11))  enso11 enso10 enso2 nao3 nao0 pdo11 salt0 ssn0];%unstandardized
variables.
```

```
%standardized variabels
Y=hotspot;X=[enso5z enso7z monsun2z monsun5z monsun7z rf5z rf8z rf9z fr2z ms3z ms12z];
[B,BINT] = regress(Y,X)
%exitt
%standardized coeffs B, strength:
%A standardized beta coefficient compares the strength of the effect of each individual independent
%variable to the dependent variable. The higher the absolute value of the beta coefficient, the stronger
the effect.
%     0.1265 enso5z   4
%     0.0612 enso7z   6
%    -0.0208 monsun2z 8
%     0.0931 monsun5z 5
%    -0.0210 monsun7z 7
%    -0.2006 rf5z     3
%    -0.3249 rf8z     1
%    -0.2427 rf9z     2
%    -0.0025 fr2z     10
%     0.0021 ms3z     11
%     0.0033 ms12z    9

 hotspot_obs=hotspot;
hotspot_mod=round(tetapan+k_enso5.*enso5+k_enso7.*enso7+k_monsun2.*monsun2+k_monsun5.*
monsun5+k_monsun7.*monsun7+k_rf5.*rf5+k_rf8.*rf8+k_rf9.*rf9+k_fr2.*fr2+k_ms3.*ms3+k_ms12
.*ms12+k_xa.*xa+k_xb.*xb+k_xc.*xc+k_xd.*xd+k_xe.*xe+k_xf.*xf+k_xg.*xg+k_xh.*xh+k_xi.*xi+
k_xj.*xj);
% [m,n]=size(hotspot_mod);

figure(1);
% plot(tahun,hotspot_obs,'-ob',tahun,hotspot_mod,'-r');
plot(tahun,hotspot_obs,'ob',tahun,hotspot_mod,'xr');
%plot(tahun,yo,'-o',tahun,y3,'-r')
```

```
title('Model Prediksi Kejadian Hotspot Pada Kawasan Sawah di Pangkep 2001-2020');
legend('Data Observasi','Data Prediksi')
% grid on
%legend('Data Observasi','Data Prediksi 3')
xlabel('Month');
ylabel('Hotspot');



satu=ones(size(hotspot_obs));

[m,n]=size(hotspot_obs);
time=1:m;

t=1:m;

%exitt
t=1:m;

data=hotspot_obs;
tetha=45;
R=[cosd(tetha) sind(tetha);-sind(tetha) cosd(tetha)];

p1s=hotspot_mod;
dp1s=[hotspot_obs(t) p1s(t)];
nip1s=(R*dp1s');
jp1s=nip1s(:,2);
jrk_p1s=norm(jp1s);
sjp1s=std(jp1s);
RMSE_pre1 = sqrt(mean((p1s(t)-hotspot_obs(t)).^2));
korr_pre1=xcorr(p1s(t),hotspot_obs(t),'coeff');
```

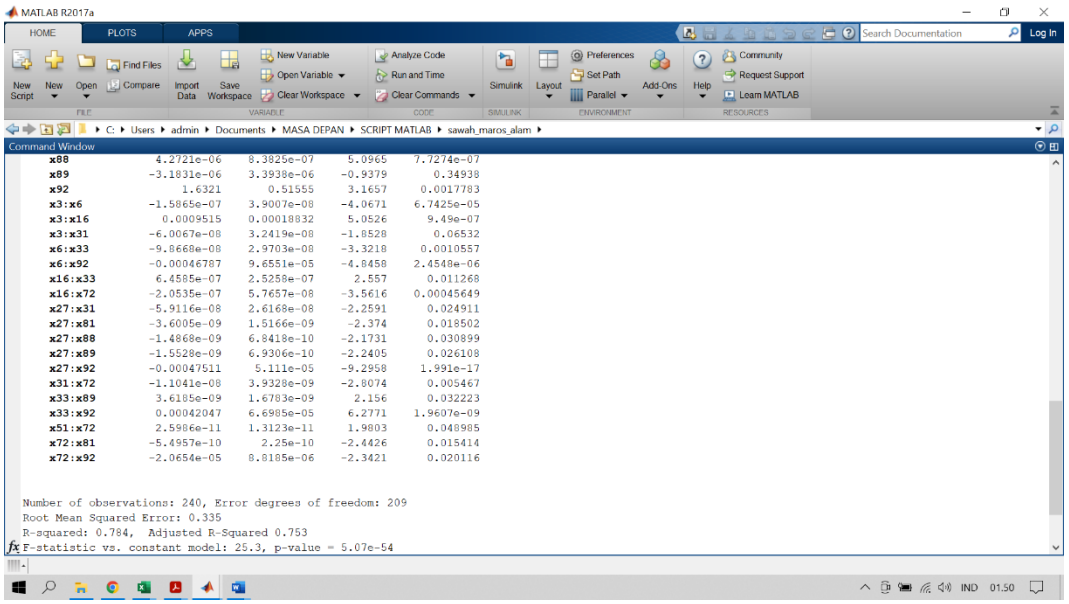
```
k_pre1=korr_pre1(m);
%exitt

% axis('square')
% xa=min(hotspot_obs):max(hotspot_obs);
% ya=min(hotspot_obs):max(hotspot_obs);
axis('square')
xa=-1:4;
ya=-1:4;



figure(2);
plot(data,hotspot_mod,'o'),hold on
plot(xa,ya,'r:','LineWidth',2),hold on
xlabel('Data Observasi')
ylabel('Data Prediksi')
title('Scatterplot Kejadian Hotspot Pada Kawasan Sawah di Pangkep 2001-2020');
text(0.1,2.8,'r=0.551')
text(0.1,2.5,'RMSE = 0.301')
axis([-0.2 3.2 -0.2 3.2])
% axis([min(hotspot_obs) max(hotspot_obs) min(hotspot_obs) max(hotspot_obs)])
%print -dtiff korelasi1.tif
```

Lampiran 4. Hasil Regresi di kabupaten Maros dan Pangkajene Kepulauan



```
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    x88          4.2721e-06    8.3825e-07    5.0965    7.7274e-07
    x89         -3.1831e-06    3.3938e-06   -0.9379       0.34938
    x92             1.6321        0.51555    3.1657    0.0017783
    x3:x6       -1.5865e-07    3.9007e-08   -4.0671    6.7425e-05
    x3:x16       0.0009515    0.00018832    5.0526    9.49e-07
    x3:x31      -6.0067e-08    3.2419e-08   -1.8528       0.06532
    x6:x33      -9.8668e-08    2.9703e-08   -3.3218    0.0010557
    x6:x92      -0.00046787    9.6551e-05   -4.8458    2.4548e-06
    x16:x33      6.4585e-07    2.5258e-07     2.557       0.011268
    x16:x72     -2.0535e-07    5.7657e-08   -3.5616    0.00045649
    x27:x31     -5.9116e-08    2.6168e-08   -2.2591       0.024911
    x27:x81     -3.6005e-09    1.5166e-09    -2.374       0.018502
    x27:x88     -1.4868e-09    6.8418e-10   -2.1731       0.030899
    x27:x89     -1.5528e-09    6.9306e-10   -2.2405       0.026108
    x27:x92     -0.00047511     5.111e-05   -9.2958    1.991e-17
    x31:x72     -1.1041e-08    3.9328e-09   -2.8074       0.005467
    x33:x89      3.6185e-09    1.6783e-09     2.156       0.032223
    x33:x92      0.00042047    6.6985e-05    6.2771    1.9607e-09
    x51:x72      2.5986e-11    1.3123e-11    1.9803       0.048985
    x72:x81     -5.4957e-10     2.25e-10   -2.4426       0.015414
    x72:x92     -2.0654e-05    8.8185e-06   -2.3421       0.020116


Number of observations: 240, Error degrees of freedom: 209
Root Mean Squared Error: 0.335
R-squared: 0.784,  Adjusted R-Squared 0.753
F-statistic vs. constant model: 25.3, p-value = 5.07e-54

IND  01.50
```

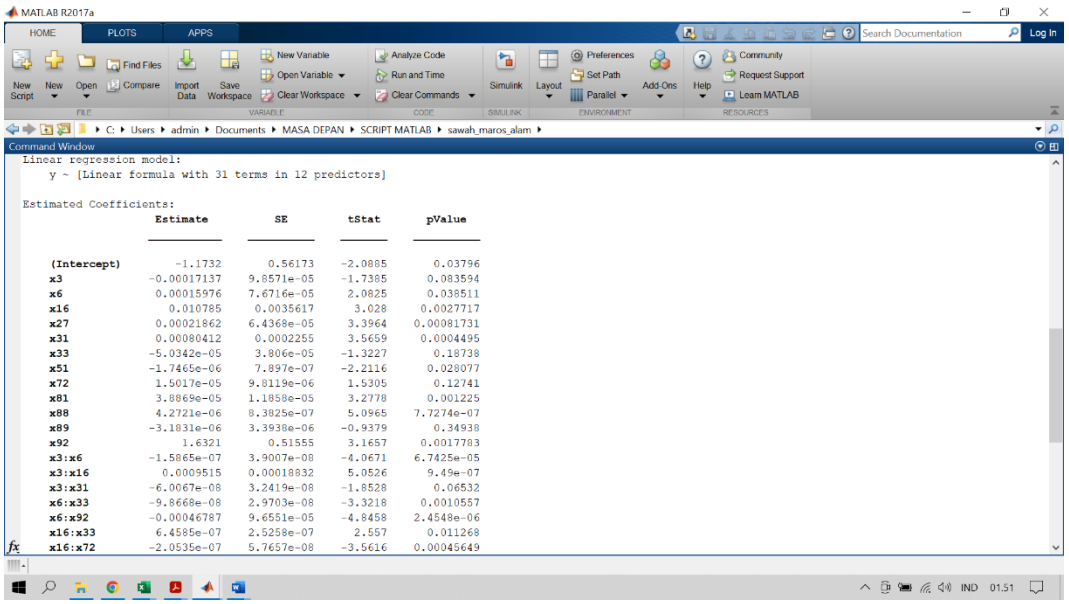

```
MATLAB R2017a

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Command Window

Linear regression model:
    y ~ [Linear formula with 31 terms in 12 predictors]

Estimated Coefficients:
                    Estimate        SE          tStat      pValue
                    ________    _________    _______    _________

    (Intercept)       -1.1732      0.56173    -2.0885      0.03796
    x3            -0.00017137    9.8571e-05   -1.7385      0.083594
    x6             0.00015976    7.6716e-05    2.0825      0.038511
    x16             0.010785     0.0035617     3.028      0.0027717
    x27            0.00021862    6.4368e-05    3.3964    0.00081731
    x31            0.00080412     0.0002255    3.5659     0.0004495
    x33           -5.0342e-05    3.806e-05    -1.3227       0.18738
    x51           -1.7465e-06    7.897e-07    -2.2116      0.028077
    x72            1.5017e-05    9.8119e-06    1.5305       0.12741
    x81            3.8869e-05    1.1858e-05    3.2778      0.001225
    x88            4.2721e-06    8.3825e-07    5.0965    7.7274e-07
    x89           -3.1831e-06    3.3938e-06   -0.9379       0.34938
    x92               1.6321       0.51555    3.1657    0.0017783
    x3:x6         -1.5865e-07    3.9007e-08   -4.0671    6.7425e-05
    x3:x16         0.0009515    0.00018832    5.0526    9.49e-07
    x3:x31        -6.0067e-08    3.2419e-08   -1.8528       0.06532
    x6:x33        -9.8668e-08    2.9703e-08   -3.3218    0.0010557
    x6:x92        -0.00046787    9.6551e-05   -4.8458    2.4548e-06
    x16:x33        6.4585e-07    2.5258e-07     2.557       0.011268
    x16:x72       -2.0535e-07    5.7657e-08   -3.5616    0.00045649

IND  01.51
```

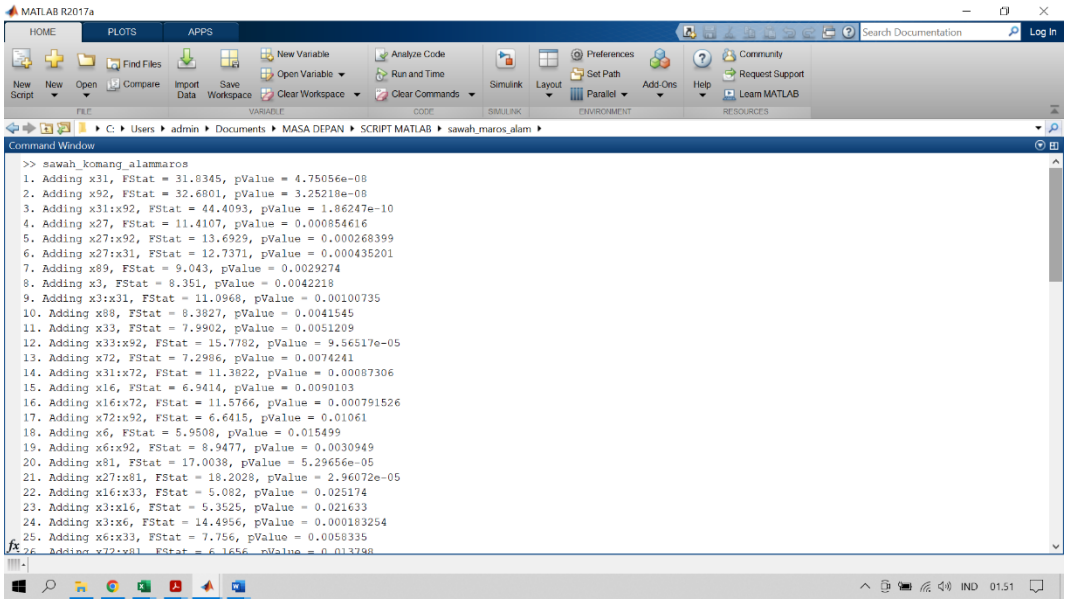
MATLAB R2017a
HOME
PLOTS
APPS
Search Documentation
Log In
New Script
New
Open
Find Files
Compare
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Save Workspace
New Variable
Open Variable
Clear Workspace
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Run and Time
Clear Commands
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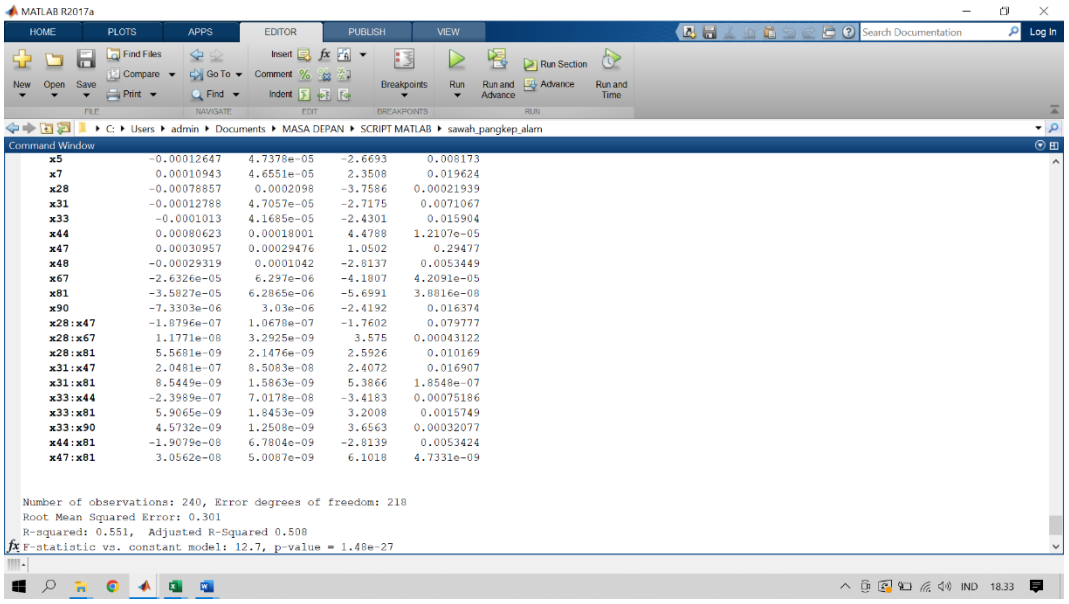
C: ▸ Users ▸ admin ▸ Documents ▸ MASA DEPAN ▸ SCRIPT MATLAB ▸ sawah_maros_alam ▸
Command Window
>> sawah_komang_alammaros
1. Adding x31, FStat = 31.8345, pValue = 4.75056e-08
2. Adding x92, FStat = 32.6801, pValue = 3.25218e-08
3. Adding x31:x92, FStat = 44.4093, pValue = 1.86247e-10
4. Adding x27, FStat = 11.4107, pValue = 0.000854616
5. Adding x27:x92, FStat = 13.6929, pValue = 0.000268399
6. Adding x27:x31, FStat = 12.7371, pValue = 0.000435201
7. Adding x89, FStat = 9.043, pValue = 0.0029274
8. Adding x3, FStat = 8.351, pValue = 0.0042218
9. Adding x3:x31, FStat = 11.0968, pValue = 0.00100735
10. Adding x88, FStat = 8.3827, pValue = 0.0041545
11. Adding x33, FStat = 7.9902, pValue = 0.0051209
12. Adding x33:x92, FStat = 15.7782, pValue = 9.56517e-05
13. Adding x72, FStat = 7.2986, pValue = 0.0074241
14. Adding x31:x72, FStat = 11.3822, pValue = 0.00087306
15. Adding x16, FStat = 6.9414, pValue = 0.0090103
16. Adding x16:x72, FStat = 11.5766, pValue = 0.000791526
17. Adding x72:x92, FStat = 6.6415, pValue = 0.01061
18. Adding x6, FStat = 5.9508, pValue = 0.015499
19. Adding x6:x92, FStat = 8.9477, pValue = 0.0030949
20. Adding x81, FStat = 17.0038, pValue = 5.29656e-05
21. Adding x27:x81, FStat = 18.2028, pValue = 2.96072e-05
22. Adding x16:x33, FStat = 5.082, pValue = 0.025174
23. Adding x3:x16, FStat = 5.3525, pValue = 0.021633
24. Adding x3:x6, FStat = 14.4956, pValue = 0.000183254
25. Adding x6:x33, FStat = 7.756, pValue = 0.0058335
IND
01.51


MATLAB R2017a
HOME
PLOTS
APPS
EDITOR
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Log In
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Open
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Find Files
Compare
Print
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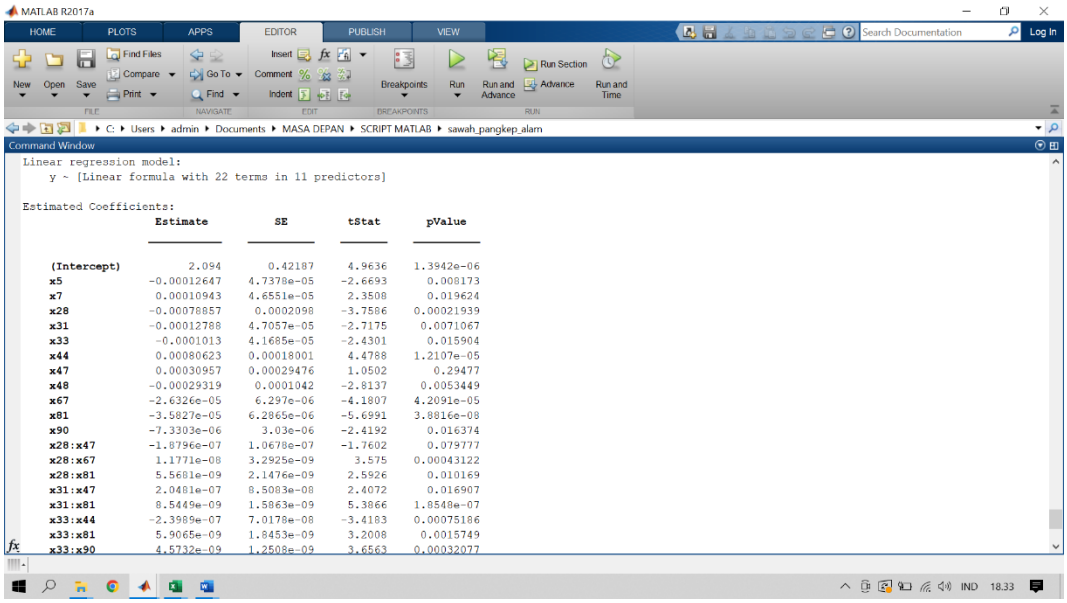
Find
Insert
Comment
Indent
Breakpoints
Run
Run and Advance
Run Section
Advance
Run and Time
C: ▸ Users ▸ admin ▸ Documents ▸ MASA DEPAN ▸ SCRIPT MATLAB ▸ sawah_pangkep_alam ▸
Command Window
x5 -0.00012647 4.7378e-05 -2.6693 0.008173
x7 0.00010943 4.6551e-05 2.3508 0.019624
x28 -0.00078857 0.0002098 -3.7586 0.00021939
x31 -0.00012788 4.7057e-05 -2.7175 0.0071067
x33 -0.0001013 4.1685e-05 -2.4301 0.015904
x44 0.00080623 0.00018001 4.4788 1.2107e-05
x47 0.00030957 0.00029476 1.0502 0.29477
x48 -0.00029319 0.0001042 -2.8137 0.0053449
x67 -2.6326e-05 6.297e-06 -4.1807 4.2091e-05
x81 -3.5827e-05 6.2865e-06 -5.6991 3.8816e-08
x90 -7.3303e-06 3.03e-06 -2.4192 0.016374
x28:x47 -1.8796e-07 1.0678e-07 -1.7602 0.079777
x28:x67 1.1771e-08 3.2925e-09 3.575 0.00043122
x28:x81 5.5681e-09 2.1476e-09 2.5926 0.010169
x31:x47 2.0481e-07 8.5083e-08 2.4072 0.016907
x31:x81 8.5449e-09 1.5863e-09 5.3866 1.8548e-07
x33:x44 -2.3989e-07 7.0178e-08 -3.4183 0.00075186
x33:x81 5.9065e-09 1.8453e-09 3.2008 0.0015749
x33:x90 4.5732e-09 1.2508e-09 3.6563 0.00032077
x44:x81 -1.9079e-08 6.7804e-09 -2.8139 0.0053424
x47:x81 3.0562e-08 5.0087e-09 6.1018 4.7331e-09
Number of observations: 240, Error degrees of freedom: 218
Root Mean Squared Error: 0.301
R-squared: 0.551, Adjusted R-Squared 0.508
F-statistic vs. constant model: 12.7, p-value = 1.48e-27
IND
18.33


MATLAB R2017a
HOME
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PUBLISH
VIEW
Search Documentation
Log In
New
Open
Save
Find Files
Compare
Print
Go To
Find
Insert
Comment
Indent
Breakpoints
Run
Run and Advance
Run Section
Advance
Run and Time
C: ▸ Users ▸ admin ▸ Documents ▸ MASA DEPAN ▸ SCRIPT MATLAB ▸ sawah_pangkep_alam
Command Window
Linear regression model:
y ~ [Linear formula with 22 terms in 11 predictors]
Estimated Coefficients:
Estimate SE tStat pValue
(Intercept) 2.094 0.42187 4.9636 1.3942e-06
x5 -0.00012647 4.7378e-05 -2.6693 0.008173
x7 0.00010943 4.6551e-05 2.3508 0.019624
x28 -0.00078857 0.0002098 -3.7586 0.00021939
x31 -0.00012788 4.7057e-05 -2.7175 0.0071067
x33 -0.0001013 4.1685e-05 -2.4301 0.015904
x44 0.00080623 0.00018001 4.4788 1.2107e-05
x47 0.00030957 0.00029476 1.0502 0.29477
x48 -0.00029319 0.0001042 -2.8137 0.0053449
x67 -2.6326e-05 6.297e-06 -4.1807 4.2091e-05
x81 -3.5827e-05 6.2865e-06 -5.6991 3.8816e-08
x90 -7.3303e-06 3.03e-06 -2.4192 0.016374
x28:x47 -1.8796e-07 1.0678e-07 -1.7602 0.079777
x28:x67 1.1771e-08 3.2925e-09 3.575 0.00043122
x28:x81 5.5681e-09 2.1476e-09 2.5926 0.010169
x31:x47 2.0481e-07 8.5083e-08 2.4072 0.016907
x31:x81 8.5449e-09 1.5863e-09 5.3866 1.8548e-07
x33:x44 -2.3989e-07 7.0178e-08 -3.4183 0.00075186
x33:x81 5.9065e-09 1.8453e-09 3.2008 0.0015749
x33:x90 4.5732e-09 1.2508e-09 3.6563 0.00032077
IND
18.33