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LAMPIRAN

1. Sampel data penelitian untuk variabel beban listrik dan variabel meteorologi Kota Maros Tahun 2018-2020.

Tanggal	Rata-Rata Temperatur	Rata-Rata Kelembaban	Beban Listrik
01-01-2018	27,7	81	315,432
02-01-2018'	28,1	82	349,138
'03-01-2018'	27,4	84	323,267
'04-01-2018'	27,4	87	349,986
'05-01-2018'	27,6	84	364,728
'06-01-2018'	26,9	88	326,739
'07-01-2018'	26,2	90	321,902
'08-01-2018'	26,9	87	352,464
'09-01-2018'	27	83	362,782
'10-01-2018'	26,9	84	355,412
'11-01-2018'	25,8	88	340,336
'12-01-2018'	25,4	92	313,449
'13-01-2018'	25,7	87	311,173
'14-01-2018'	25,3	85	308,848
'15-01-2018'	25,6	90	332,315
'16-01-2018'	24,7	93	300,319
'17-01-2018'	25,3	91	259,260
'18-01-2018'	26,1	88	273,141
'19-01-2018'	26,2	87	266,420
'20-01-2018'	25,7	91	259,160
'21-01-2018'	26,8	86	259,974
'22-01-2018'	27,3	85	269,453
'23-01-2018'	27,3	84	291,438
'24-01-2018'	27,6	84	350,295
'25-01-2018'	27,8	83	350,991
'26-01-2018'	26,9	87	322,080
'27-01-2018'	27,1	86	265,041
'28-01-2018'	27,6	86	256,837
'29-01-2018'	28,4	81	282,200
'30-01-2018'	27,9	81	282,539
'01-02-2018'	25,3	94	254,703
'02-02-2018'	25,3	91	261,158
'03-02-2018'	25,8	89	268,295
'04-02-2018'	25,9	85	289,194

'05-02-2018'	27,3	86	279,598
'06-02-2018'	25	93	260,748
'07-02-2018'	25	93	241,127
'08-02-2018'	24,9	92	251,070
'09-02-2018'	26,8	86	267,806
'10-02-2018'	24,8	95	248,019
'11-02-2018'	24,5	95	233,248
'12-02-2018'	26	87	259,406
'13-02-2018'	25,5	91	262,193
'14-02-2018'	24,4	96	246,289
'15-02-2018'	24	98	239,431
'16-02-2018'	24,9	94	214,790
'17-02-2018'	26,8	86	243,567
'18-02-2018'	27,3	85	256,727
'19-02-2018'	26,5	88	277,113
'20-02-2018'	27,5	83	278,937
'21-02-2018'	27,4	86	294,656
'22-02-2018'	26,8	86	289,847
'23-02-2018'	26,6	87	269,432
'24-02-2018'	27,1	86	257,567
'25-02-2018'	26,5	86	245,227
'26-02-2018'	26,6	86	260,715
'27-02-2018'	26,6	87	262,747
'28-02-2018'	27,4	86	279,230
'01-03-2018'	25,5	93	265,924
'02-03-2018'	27	85	266,028
'03-03-2018'	27,6	83	267,219
'04-03-2018'	27,8	83	264,846
'05-03-2018'	27,1	87	291,492
'06-03-2018'	27,4	84	292,680
'07-03-2018'	26,7	90	284,653
'08-03-2018'	24,7	95	255,979
'09-03-2018'	24,9	94	251,759
'10-03-2018'	26,8	84	260,360
'11-03-2018'	26,8	89	251,813
'12-03-2018'	26,9	82	274,107
'13-03-2018'	27,4	85	284,500
'14-03-2018'	25,5	89	266,802
'15-03-2018'	27	88	289,240
'16-03-2018'	25,9	92	269,996
'17-03-2018'	26,3	89	238,898
'18-03-2018'	25,9	92	240,742
'19-03-2018'	26,7	84	287,745

'20-03-2018'	27,8	81	295,537
'21-03-2018'	28,7	92	303,965
'22-03-2018'	29,65	89	271,637
'23-03-2018'	30,6	92	270,719
'24-03-2018'	31,55	92	264,448
'25-03-2018'	32,5	89	248,482
'26-03-2018'	33,45	92	270,756
'27-03-2018'	34,4	84	277,074
'28-03-2018'	27,2	81	280,495
'29-03-2018'	26,9	87	284,705
'30-03-2018'	26,3	87	246,535
'31-03-2018'	26,7	85	251,806
'01-04-2018'	26,3	87	259,216
'02-04-2018'	26,7	85	272,876
'03-04-2018'	26,9	88	272,208
'04-04-2018'	27,1	85	275,621
'05-04-2018'	27,3	84	282,613
'06-04-2018'	27,7	82	285,983
'07-04-2018'	27,3	84	269,141
'08-04-2018'	28,3	77	256,030
'09-04-2018'	27,7	84	280,251
'10-04-2018'	27,3	77	298,871
'11-04-2018'	28,3	84	294,428
'12-04-2018'	28,1	77	302,470
'13-04-2018'	28,4	78	303,018
'14-04-2018'	28,4	80	269,390
'15-04-2018'	27,3	82	264,017
'16-04-2018'	27	90	289,057
'17-04-2018'	27,4	87	287,909
'18-04-2018'	27,2	86	286,596
'19-04-2018'	27,1	87	282,323
'20-04-2018'	27,1	84	281,509
'21-04-2018'	26,5	89	270,356
'22-04-2018'	26,8	88	261,922
'23-04-2018'	28,1	73	297,439
'24-04-2018'	28,6	75	309,797
'25-04-2018'	28,3	77	306,614
'26-04-2018'	27,9	80	309,009
'27-04-2018'	27,9	83	306,401
'28-04-2018'	27,9	78	294,582
'29-04-2018'	27,8	72	282,819
'30-04-2018'	27,1	78	306,627
'01-05-2018'	28,2	77	271,747

'02-05-2018'	27,3	78	289,542
'03-05-2018'	28	78	305,102
'04-05-2018'	28,1	75	305,867
'05-05-2018'	29,5	67	300,862
'06-05-2018'	29	78	236,454
'07-05-2018'	28,9	75	314,371
'08-05-2018'	28,3	76	309,388
'09-05-2018'	28,1	80	313,458
'10-05-2018'	28,6	75	283,443
'11-05-2018'	28,2	74	298,494
'12-05-2018'	27,6	80	291,272
'13-05-2018'	28,1	81	279,357
'14-05-2018'	26	92	291,414
'15-05-2018'	29	76	295,571
'16-05-2018'	28,6	76	296,060
'17-05-2018'	28	83	311,737
'18-05-2018'	28,2	84	305,800
'19-05-2018'	28,7	77	299,909
'20-05-2018'	28,3	77	287,271
'21-05-2018'	26,9	82	294,529
'22-05-2018'	28,9	75	303,726
'23-05-2018'	29,3	74	302,745
'24-05-2018'	28,1	84	300,603
'25-05-2018'	27,2	87	286,275
'26-05-2018'	27	89	272,208
'27-05-2018'	27,9	85	275,514
'28-05-2018'	28,3	82	300,881
'29-05-2018'	27,7	84	273,953
'30-05-2018'	27,5	81	297,773
'31-05-2018'	28,3	78	303,064
'01-06-2018'	27,2	80	286,705
'02-06-2018'	27	82	282,748
'03-06-2018'	27	85	268,384
'04-06-2018'	27,5	86	286,178
'05-06-2018'	27,3	84	296,106
'06-06-2018'	27,3	86	297,845
'07-06-2018'	27,7	80	286,843
'08-06-2018'	27,8	76	292,890
'09-06-2018'	27,6	73	271,317
'10-06-2018'	27,7	82	262,665
'11-06-2018'	28,6	77	275,604
'12-06-2018'	26,9	86	268,943
'13-06-2018'	26,9	85	262,722

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'16-06-2018'	27	77	233,767
'17-06-2018'	27,2	70	230,603
'18-06-2018'	27,2	81	244,626
'19-06-2018'	27,1	84	251,362
'20-06-2018'	25,1	92	238,865
'21-06-2018'	25,9	90	273,516
'22-06-2018'	26	89	278,462
'23-06-2018'	27,2	81	273,641
'24-06-2018'	26,9	83	271,925
'25-06-2018'	26,3	87	287,378
'26-06-2018'	26,2	86	289,522
'27-06-2018'	25,3	92	241,235
'28-06-2018'	26,6	86	282,389
'29-06-2018'	26	90	283,289
'30-06-2018'	26,4	85	311,025
'01-07-2018'	23	31	272,912
'02-07-2018'	24	30	292,391
'03-07-2018'	24	27,2	270,482
'04-07-2018'	24	30	269,158
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'06-07-2018'	23	30,2	261,091
'07-07-2018'	24	30,2	254,642
'08-07-2018'	22	32,2	247,425
'09-07-2018'	23	31,8	280,950
'10-07-2018'	22	32,2	285,580
'11-07-2018'	21	29,6	279,872
'12-07-2018'	23	31,4	286,091
'13-07-2018'	24	31,2	285,189
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'15-07-2018'	23	30,9	273,004
'16-07-2018'	22	30,9	286,983
'17-07-2018'	22	31,3	294,415
'18-07-2018'	23	32,2	297,329
'19-07-2018'	22	33,2	296,464
'20-07-2018'	23	30,5	290,504
'21-07-2018'	25	29,5	259,727
'22-07-2018'	25	31,8	259,576
'23-07-2018'	24	31,4	278,979
'24-07-2018'	25	31,9	279,585
'25-07-2018'	23	32,4	282,886
'26-07-2018'	24	31	283,553

'27-07-2018'	24	31,9	290,112
'28-07-2018'	23	31,9	288,125
'29-07-2018'	23	31,7	275,843
'30-07-2018'	23	31,4	286,386
'31-07-2018'	23	32,6	278,841
'01-08-2018'	27,1	67	273,569
'02-08-2018'	26	74	268,679
'03-08-2018'	26,2	81	270,793
'04-08-2018'	26,9	73	264,085
'05-08-2018'	26,7	72	256,499
'06-08-2018'	26,3	70	269,880
'07-08-2018'	27,2	73	282,551
'08-08-2018'	27,7	70	285,299
'09-08-2018'	27,7	75	332,106
'10-08-2018'	27,6	77	349,359
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'12-08-2018'	27,2	72	324,374
'13-08-2018'	28,7	74	345,557
'14-08-2018'	27,5	72	354,277
'15-08-2018'	26,8	72	356,992
'16-08-2018'	26,2	72	345,296
'17-08-2018'	26,8	70	316,905
'18-08-2018'	27,2	75	318,145
'19-08-2018'	28,3	66	335,862
'20-08-2018'	29,6	64	366,579
'21-08-2018'	27,6	74	372,100
'22-08-2018'	27,2	77	321,505
'23-08-2018'	27,5	71	363,401
'24-08-2018'	27	71	367,054
'25-08-2018'	26,4	78	357,560
'26-08-2018'	27,5	75	352,876
'27-08-2018'	27,3	71	418,455
'28-08-2018'	26,7	76	380,686
'29-08-2018'	26,9	74	375,239
'30-08-2018'	27,1	77	363,769
'31-08-2018'	27,2	76	337,694
'01-09-2018'	27,4	73	289,482
'02-09-2018'	27,2	75	271,812
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'05-09-2018'	27,8	72	289,854
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'09-09-2018'	29	60	279,171
'10-09-2018'	29	55	293,870
'11-09-2018'	28	64	259,353
'12-09-2018'	26,3	74	289,528
'13-09-2018'	26,5	76	299,124
'14-09-2018'	27,1	67	293,285
'15-09-2018'	27,7	62	281,434
'16-09-2018'	30,9	45	269,798
'17-09-2018'	28,4	68	313,158
'18-09-2018'	27,9	76	314,004
'19-09-2018'	28,4	74	314,863
'20-09-2018'	26,7	72	301,651
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'22-09-2018'	27,6	65	292,118
'23-09-2018'	27,8	66	288,552
'24-09-2018'	28,2	65	317,733
'25-09-2018'	28,8	61	318,701
'26-09-2018'	29,7	56	311,456
'27-09-2018'	28	68	308,251
'28-09-2018'	27,1	68	299,907
'29-09-2018'	28,1	69	293,375
'30-09-2018'	29,1	72	285,498
'01-10-2018'	29,8	54	296,848
'02-10-2018'	28,2	60	312,948
'03-10-2018'	28,7	57	301,309
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'06-10-2018'	29,2	65	308,457
'07-10-2018'	27,5	71	293,297
'08-10-2018'	28,5	67	309,421
'09-10-2018'	27,6	59	276,282
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'11-10-2018'	28,9	69	377,461
'12-10-2018'	28,3	68	386,138
'13-10-2018'	28,4	76	379,349
'14-10-2018'	28,1	75	357,491
'15-10-2018'	26,8	79	287,686
'16-10-2018'	27,1	79	293,088
'17-10-2018'	27,6	81	305,574
'18-10-2018'	26,2	83	299,502
'19-10-2018'	27,3	81	301,013
'20-10-2018'	27,3	81	288,475

'21-10-2018'	27,3	81	284,615
'22-10-2018'	27,6	80	297,127
'23-10-2018'	27,2	83	292,137
'24-10-2018'	28,3	76	305,231
'25-10-2018'	28,1	76	299,710
'26-10-2018'	28,5	75	303,046
'27-10-2018'	28,5	75	291,868
'28-10-2018'	28,1	71	282,115
'29-10-2018'	28,5	77	315,640
'30-10-2018'	27,9	79	321,313
'31-10-2018'	28,3	76	315,746
'01-11-2018'	28,2	79	319,490
'02-11-2018'	29	81	320,394
'03-11-2018'	28,3	80	319,609
'04-11-2018'	28	80	277,544
'05-11-2018'	28,1	82	292,733
'06-11-2018'	27,8	84	291,924
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'08-11-2018'	26,9	87	307,301
'09-11-2018'	27	87	295,008
'10-11-2018'	28,1	81	257,789
'11-11-2018'	28,4	81	284,916
'12-11-2018'	28,5	80	302,238
'13-11-2018'	28,6	77	313,292
'14-11-2018'	28,9	76	313,596
'15-11-2018'	29,3	75	300,744
'16-11-2018'	27,4	81	212,950
'17-11-2018'	27,2	85	299,657
'18-11-2018'	27,5	86	280,921
'19-11-2018'	28,3	79	317,106
'20-11-2018'	28,3	84	383,712
'21-11-2018'	25,7	87	341,408
'22-11-2018'	26,6	86	400,176
'23-11-2018'	27	83	382,062
'24-11-2018'	27,3	83	294,162
'25-11-2018'	26,4	88	270,120
'26-11-2018'	27,3	81	292,126
'27-11-2018'	28,2	77	312,296
'28-11-2018'	28,8	77	328,419
'29-11-2018'	27,6	85	317,421
'30-11-2018'	28,3	81	312,279
'01-12-2018'	26,6	86	285,545
'02-12-2018'	27,3	84	273,642

'03-12-2018'	27,3	82	291,277
'04-12-2018'	27,2	85	287,637
'05-12-2018'	27,3	84	282,464
'06-12-2018'	27,6	84	301,981
'07-12-2018'	28,5	83	310,934
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'09-12-2018'	27,9	85	294,016
'10-12-2018'	28,1	83	297,208
'11-12-2018'	28,7	81	308,250
'12-12-2018'	27,6	85	305,929
'13-12-2018'	26,3	90	302,964
'14-12-2018'	27,5	80	310,885
'15-12-2018'	27,6	85	298,289
'16-12-2018'	27,6	85	262,565
'17-12-2018'	26,4	89	283,938
'18-12-2018'	27,4	84	301,934
'19-12-2018'	25,4	91	286,017
'20-12-2018'	27,4	85	295,729
'21-12-2018'	26,9	85	275,223
'22-12-2018'	24,3	96	266,010
'23-12-2018'	25,2	92	262,860
'24-12-2018'	25,3	91	251,484
'25-12-2018'	25,3	91	252,823
'26-12-2018'	26,6	86	270,591
'27-12-2018'	26,1	89	276,518
'28-12-2018'	24,2	94	248,697
'29-12-2018'	25	90	252,423
'30-12-2018'	26,6	85	259,935
'31-12-2018'	27,1	81	277,454
'01-01-2019'	25,8	88	239,490
'02-01-2019'	24,3	94	245,654
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'06-01-2019'	27,3	85	270,095
'07-01-2019'	27,7	80	253,919
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'11-01-2019'	28,1	77	316,836
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'13-01-2019'	27,5	85	285,685
'14-01-2019'	26,7	88	292,150

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'20-03-2019'	27,7	84	333,313
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'30-05-2019'	28,7	73	307,373
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'13-06-2019'	27,1	88	297,614
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'31-01-2020'	25,4	95	171,400
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'11-02-2020'	27,7	86	178,489
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'29-02-2020'	27,9	88	176,101
'01-03-2020'	27,6	88	175,251
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'06-03-2020'	25,1	93	163,260
'07-03-2020'	26,5	90	166,251
'08-03-2020'	25,2	96	163,040
'09-03-2020'	27,8	80	170,841
'10-03-2020'	27,9	83	177,328
'11-03-2020'	28,3	84	187,731
'12-03-2020'	28,2	84	184,911
'13-03-2020'	28,1	84	188,189
'14-03-2020'	25,9	93	172,056
'15-03-2020'	28	83	174,174
'16-03-2020'	28,1	84	187,120
'17-03-2020'	28,4	81	193,245
'18-03-2020'	27,6	81	190,360
'19-03-2020'	27,5	84	182,866

'20-03-2020'	26,5	88	176,177
'21-03-2020'	27	86	174,540
'22-03-2020'	26,9	86	170,274
'23-03-2020'	27	85	180,468
'24-03-2020'	27,6	84	180,698
'25-03-2020'	27,8	79	179,663
'26-03-2020'	28,1	82	187,348
'27-03-2020'	28,7	83	187,054
'28-03-2020'	28,1	84	182,041
'29-03-2020'	27,7	84	177,702
'30-03-2020'	27,4	88	182,288
'31-03-2020'	27,4	84	179,193
'01-04-2020'	26,9	89	176,586
'02-04-2020'	27,8	82	182,272
'03-04-2020'	28,8	82	184,317
'04-04-2020'	28,2	84	182,869
'05-04-2020'	28,5	81	180,456
'06-04-2020'	27,9	86	180,570
'07-04-2020'	26,9	88	181,256
'08-04-2020'	26	94	169,882
'09-04-2020'	27,1	87	176,540
'10-04-2020'	28,5	82	179,962
'11-04-2020'	27,3	88	175,968
'12-04-2020'	28,5	85	172,811
'13-04-2020'	28	87	182,146
'14-04-2020'	28,2	84	184,550
'15-04-2020'	28,1	88	197,253
'16-04-2020'	28,2	86	212,754
'17-04-2020'	28	85	210,290
'18-04-2020'	27,7	85	191,211
'19-04-2020'	26,9	90	192,223
'20-04-2020'	27,8	83	176,445
'21-04-2020'	27,7	80	202,043
'22-04-2020'	26,8	88	196,823
'23-04-2020'	28,1	84	205,621
'24-04-2020'	28	84	209,270
'25-04-2020'	27,3	90	205,026
'26-04-2020'	28	84	204,709
'27-04-2020'	28,3	82	208,513
'28-04-2020'	27,4	86	201,356
'29-04-2020'	28	84	211,957
'30-04-2020'	28,1	78	214,204
'01-05-2020'	28,5	80	211,273

'02-05-2020'	28,6	78	213,795
'03-05-2020'	28,2	82	212,969
'04-05-2020'	28,6	83	213,467
'05-05-2020'	28,8	83	209,899
'06-05-2020'	29,1	84	222,469
'07-05-2020'	27,2	89	205,591
'08-05-2020'	27,8	88	208,116
'09-05-2020'	27,6	87	203,501
'10-05-2020'	27,6	86	202,894
'11-05-2020'	28,1	82	210,434
'12-05-2020'	28,8	77	212,256
'13-05-2020'	28,4	78	212,979
'14-05-2020'	28,5	79	211,217
'15-05-2020'	29,6	80	213,849
'16-05-2020'	29,3	76	196,609
'17-05-2020'	28,7	81	212,762
'18-05-2020'	27,2	92	210,324
'19-05-2020'	27,4	87	202,950
'20-05-2020'	27,6	88	204,358
'21-05-2020'	26,4	92	194,918
'22-05-2020'	26,4	90	197,584
'23-05-2020'	27,5	82	199,990
'24-05-2020'	27,9	87	200,612
'25-05-2020'	27,9	89	195,864
'26-05-2020'	27,7	89	200,231
'27-05-2020'	27,4	90	197,052
'28-05-2020'	28,1	86	203,433
'29-05-2020'	28,6	82	204,326
'30-05-2020'	29,1	79	204,074
'31-05-2020'	27,5	87	198,065
'01-06-2020'	27,7	86	275,093
'02-06-2020'	29	75	308,073
'03-06-2020'	28,6	72	291,735
'04-06-2020'	29	68	295,576
'05-06-2020'	28,1	82	295,326
'06-06-2020'	27,8	86	289,826
'07-06-2020'	27,7	80	276,326
'08-06-2020'	27,9	84	293,076
'09-06-2020'	27,9	80	340,326
'10-06-2020'	27,7	83	356,076
'11-06-2020'	28	80	371,630
'12-06-2020'	26,8	82	340,792
'13-06-2020'	26,4	90	340,751

'14-06-2020'	28	84	341,370
'15-06-2020'	26,9	85	365,711
'16-06-2020'	27,7	85	370,765
'17-06-2020'	28,2	82	367,233
'18-06-2020'	28,9	73	374,311
'19-06-2020'	27,7	79	384,857
'20-06-2020'	27,2	88	371,336
'21-06-2020'	27,3	86	355,325
'22-06-2020'	27,4	78	381,219
'23-06-2020'	27,9	73	370,294
'24-06-2020'	27,8	79	367,512
'25-06-2020'	26,4	81	353,002
'26-06-2020'	27,2	79	353,053
'27-06-2020'	26,5	76	330,172
'28-06-2020'	25,6	80	317,220
'29-06-2020'	27,2	80	384,593
'30-06-2020'	27,4	80	358,319
'01-07-2020'	27,5	80	356,491
'02-07-2020'	27	81	275,263
'03-07-2020'	26,4	84	267,482
'04-07-2020'	27,2	78	261,625
'05-07-2020'	27,2	82	258,269
'06-07-2020'	27,2	86	279,197
'07-07-2020'	26,9	84	277,315
'08-07-2020'	27,2	82	277,152
'09-07-2020'	27,2	84	274,282
'10-07-2020'	27,8	82	282,040
'11-07-2020'	27,3	86	268,666
'12-07-2020'	27,4	85	265,799
'13-07-2020'	27,3	76	268,638
'14-07-2020'	28,3	72	275,053
'15-07-2020'	26,9	83	278,412
'16-07-2020'	27,3	79	294,468
'17-07-2020'	28,6	80	305,784
'18-07-2020'	26,8	89	266,589
'19-07-2020'	27,3	86	267,129
'20-07-2020'	27,3	75	279,371
'21-07-2020'	26,8	82	273,727
'22-07-2020'	27,6	79	283,748
'23-07-2020'	27,7	68	264,644
'24-07-2020'	26,2	72	261,095
'25-07-2020'	26	77	260,910
'26-07-2020'	25,7	74	253,387

'27-07-2020'	27,5	70	277,114
'28-07-2020'	26,2	76	277,603
'29-07-2020'	26,2	74	275,333
'30-07-2020'	25,8	79	256,294
'31-07-2020'	26,6	82	249,467
'01-08-2020'	26,6	82	253,984
'02-08-2020'	26,6	81	261,027
'03-08-2020'	27,1	77	288,203
'04-08-2020'	27,5	85	311,796
'05-08-2020'	27,9	84	323,514
'06-08-2020'	27,7	80	323,491
'07-08-2020'	27	80	309,534
'08-08-2020'	28,3	76	292,411
'09-08-2020'	28,2	81	282,130
'10-08-2020'	27	87	311,334
'11-08-2020'	27,4	90	308,223
'12-08-2020'	27,6	87	302,911
'13-08-2020'	28,3	79	319,656
'14-08-2020'	27,3	78	310,180
'15-08-2020'	27,7	73	296,182
'16-08-2020'	28,1	72	285,179
'17-08-2020'	28,3	66	272,049
'18-08-2020'	26,6	74	291,710
'19-08-2020'	27,1	70	302,220
'20-08-2020'	27,1	76	288,351
'21-08-2020'	26,9	77	297,437
'22-08-2020'	28,9	66	298,056
'23-08-2020'	28,2	57	267,812
'24-08-2020'	28,3	57	305,981
'25-08-2020'	30,1	56	311,122
'26-08-2020'	29,4	53	303,616
'27-08-2020'	29,7	54	294,108
'28-08-2020'	28,6	67	300,615
'29-08-2020'	29,9	58	268,979
'30-08-2020'	30,1	56	268,874
'31-08-2020'	29,7	57	300,671
'01-09-2020'	28,1	80	298,930
'02-09-2020'	27,6	83	293,727
'03-09-2020'	27,8	83	296,993
'04-09-2020'	28,5	71	297,872
'05-09-2020'	28,6	68	292,940
'06-09-2020'	27,9	71	282,064
'07-09-2020'	28	68	302,374

'08-09-2020'	28,2	73	310,563
'09-09-2020'	28,9	76	317,275
'10-09-2020'	28,5	73	318,220
'11-09-2020'	29	68	315,987
'12-09-2020'	30,5	52	299,148
'13-09-2020'	28,8	63	286,677
'14-09-2020'	28,2	59	304,738
'15-09-2020'	28,5	68	306,064
'16-09-2020'	29	73	299,569
'17-09-2020'	30,5	76	310,159
'18-09-2020'	28,5	73	321,902
'19-09-2020'	29	68	313,689
'20-09-2020'	30,5	52	286,662
'21-09-2020'	28,8	63	317,449
'22-09-2020'	28,5	68	332,987
'23-09-2020'	29	73	360,837
'24-09-2020'	28,5	76	334,953
'25-09-2020'	29	73	321,008
'26-09-2020'	30,5	68	307,179
'27-09-2020'	28,8	52	296,293
'28-09-2020'	28,2	63	318,009
'29-09-2020'	27,5	76	319,678
'30-09-2020'	27,7	79	319,504
'01-10-2020'	29,7	75	327,895
'02-10-2020'	31	56	323,252
'03-10-2020'	29	69	307,222
'04-10-2020'	28,3	72	276,291
'05-10-2020'	28,2	68	319,766
'06-10-2020'	27,8	78	358,766
'07-10-2020'	28,7	76	330,482
'08-10-2020'	28,2	80	328,131
'09-10-2020'	26,9	88	313,865
'10-10-2020'	27,8	85	299,312
'11-10-2020'	29,1	70	289,100
'12-10-2020'	30,7	63	304,446
'13-10-2020'	28,2	76	320,329
'14-10-2020'	28,5	78	315,480
'15-10-2020'	28,8	78	318,078
'16-10-2020'	28,7	76	308,367
'17-10-2020'	28,5	77	344,512
'18-10-2020'	27,9	84	313,611
'19-10-2020'	26,8	84	294,074
'20-10-2020'	27,5	83	342,245

'21-10-2020'	27,7	79	367,271
'22-10-2020'	28,1	76	339,588
'23-10-2020'	26,8	80	332,968
'24-10-2020'	27,6	84	291,616
'25-10-2020'	28,5	82	277,926
'26-10-2020'	27,9	79	299,099
'27-10-2020'	26,2	86	295,982
'28-10-2020'	27,7	80	295,761
'29-10-2020'	28,4	80	278,284
'30-10-2020'	29	81	290,389
'31-10-2020'	27,8	83	285,950
'01-11-2020'	27,5	85	289,072
'02-11-2020'	27,9	83	317,477
'03-11-2020'	27,1	87	319,508
'04-11-2020'	28,7	82	319,883
'05-11-2020'	28,2	84	315,805
'06-11-2020'	25,2	90	290,575
'07-11-2020'	27,9	82	293,368
'08-11-2020'	27,6	82	287,103
'09-11-2020'	27,2	82	310,878
'10-11-2020'	28,7	74	306,439
'11-11-2020'	27,8	80	316,293
'12-11-2020'	28,8	79	314,983
'13-11-2020'	29,2	80	321,948
'14-11-2020'	27,5	84	308,262
'15-11-2020'	25,9	91	272,580
'16-11-2020'	28,6	81	311,582
'17-11-2020'	28,6	80	326,063
'18-11-2020'	28,4	82	326,908
'19-11-2020'	27,2	88	312,630
'20-11-2020'	26,6	90	299,191
'21-11-2020'	27,1	89	312,794
'22-11-2020'	27,9	86	281,128
'23-11-2020'	27,8	88	301,947
'24-11-2020'	26,2	91	308,278
'25-11-2020'	27,4	87	308,004
'26-11-2020'	27,8	85	304,363
'27-11-2020'	27,1	87	297,036
'28-11-2020'	27,7	85	295,917
'29-11-2020'	28,6	81	316,531
'30-11-2020'	25,2	93	286,189
'01-12-2020'	25,7	94	280,879
'02-12-2020'	26,5	92	289,212

'03-12-2020'	27,8	86	327,670
'04-12-2020'	24,7	96	322,056
'05-12-2020'	25,5	93	328,108
'06-12-2020'	26,6	90	328,113
'07-12-2020'	27,6	81	328,742
'08-12-2020'	27,9	81	369,760
'09-12-2020'	28,4	77	330,381
'10-12-2020'	28,5	78	377,356
'11-12-2020'	28,7	81	398,422
'12-12-2020'	26,3	90	350,984
'13-12-2020'	26,2	89	326,480
'14-12-2020'	25,7	90	342,479
'15-12-2020'	26,8	86	326,958
'16-12-2020'	27	89	299,207
'17-12-2020'	25,2	96	271,643
'18-12-2020'	25,3	94	250,366
'19-12-2020'	24,4	97	253,388
'20-12-2020'	24,3	96	238,577
'21-12-2020'	26,3	91	273,208
'22-12-2020'	25,7	91	270,094
'23-12-2020'	26,7	87	281,778
'24-12-2020'	27	87	274,800
'25-12-2020'	27,6	84	260,154
'26-12-2020'	27,2	86	260,482
'27-12-2020'	27,8	83	273,540
'28-12-2020'	25,7	92	287,076
'29-12-2020'	24,8	96	253,119
'30-12-2020'	26,5	88	278,010
'31-12-2020'	24,9	96	244,234

2. Coding program menggunakan matlab2016A

```
%% Bersihkan layar dan variable
clear all
clc
%% set variable data
TAHUN_DATA = {'2018', '2019', '2020'}
JUMLAH_DATA = 12* length(TAHUN_DATA)

%% Import data dari excek
[~, ~, DATA_ALL] = xlsread('dataset\data.xlsx','Sheet1');
```

```

DATA_ALL(cellfun(@(x) ~isempty(x) && isnumeric(x) &&
isnan(x),DATA_ALL)) = {};
idx = cellfun(@ischar, DATA_ALL);

%% parsing data ke tiap jenis
SUHU = cell2mat(DATA_ALL(:,5));
KELAMBAPAN = cell2mat(DATA_ALL(:,6));
BEBAN = cell2mat(DATA_ALL(:,7));

%% bentuk data latih
DATA_LATIH = [SUHU KELAMBAPAN BEBAN];
%% transformasi/normalisasi data
MAX_DATA = max(max(DATA_LATIH))
MIN_DATA = min(min(DATA_LATIH))

aReal = DATA_LATIH ;
aNorm = Normalisasi01(aReal,MAX_DATA,MIN_DATA);
aDenorm = DeNormalisasi01(aNorm,MAX_DATA,MIN_DATA);

%% data hasil transformasi untuk pelatihan
JML_DATA = length(aNorm) - 1;
DATA_TRAIN = [ aNorm(1:JML_DATA,1) aNorm(1:JML_DATA,2)
aNorm(2:end,3)  ];
%% simpan ke file
Dlmwrite('data.txt', DATA_TRAIN , 'delimiter', ',');

%% set variable unt elm
activationFunction = 'linear';
dataFile = 'data.txt';
rowsToSkip = 0;
columnsToSkipFromLeft =0;
columnsToSkipFromRight = 0;
hiddenLayerSize = 10;
%% prosesntase pembagian data latih
trainingPercentage = 100;
%% jumlah hari ramal
daysToPredict = 30;

%% load data pelatihan
pureData = csvread(dataFile,rowsToSkip,columnsToSkipFromLeft);
%% data input latih
X = pureData(daysToPredict:end,1:end - columnsToSkipFromRight);
%% jml data latih
[nEntries, nFeatures] = size(X);

```

```

%% target latih
Y = pureData(1:nEntries,1:nFeatures);
%% bagi data sesuai prosentase
percTraining = trainingPercentage/100;
endTraining = ceil(percTraining * nEntries);

%% unukt data latih
trainX = X(1:endTraining,:);
trainY = Y(1:endTraining,:);
%% untuk data test
X = pureData( end - daysToPredict + 1 : end,1:end - columnsToSkipFromRight);
Y = pureData( end - daysToPredict + 1 : end,1:end - columnsToSkipFromRight);

% untuk data uji
testX = X(1:end,:);
testY = Y(1:end,:);
%% inialisasi ELM class
%% panggil ELM
ELM = ELM_MatlabClass(nFeatures,hiddenLayerSize,activationFunction);

%% pelatihan elm dari data
ELM = train(ELM,trainX,trainY);

%% validasi ELM
predictionTest = predict(ELM,testX);
y =testX;
target_test = predictionTest;
%% denormalisasi data prediksi
deNorm =DeNormalisasi01(predictionTest,MAX_DATA,MIN_DATA);
deNormTest =DeNormalisasi01(testX,MAX_DATA,MIN_DATA);

%% tampilkan grafik hasil
figure;
hold on
plot( deNormTest(:,3) ,'-');
plot( deNorm(:,3) ,'-');
xlabel('Periode (Hari)');
ylabel('Beban');
legend({'Aktual','Prediksi'},'Location','southeast');
hold off

%% hitung akurasi
MAPE= computeMAPE(testX(:,3), predictionTest(:,3))

```