

```

. do olah.do

. // Membuka dataset
. use "sumsel.dta", clear

.
. // Memilih data yang akan digunakan
. keep D_R urut psu ssu wi1 wi2 wert r101 r102 r105 r301 r703_a r705 r707
r1701 r1702 r1703 r170
> 4 r1705 r1706 r1707 r1708 r1808 r1807 r1809a r1816 r1816b1 r2101a
belanja_pakaian food expend
> kapita

.
. // Membuat variabel dummy untuk status kemiskinan rumah tangga
. gen status_miskin = .
(11,070 missing values generated)

. label variable status_miskin "Status Kemiskinan Rumah Tangga"

. label define miskin_label 0 "Tidak miskin" 1 "Miskin"

. label values status_miskin miskin_label

.
. //Membuat variabel Y status kemiskinan rumah tangga
. replace status_miskin = 1 if (r105 == 1 & kapita < 556102)
(359 real changes made)

. replace status_miskin = 1 if (r105 == 2 & kapita < 500688)
(673 real changes made)

. replace status_miskin = 0 if (r105 == 1 & kapita >= 556102)
(3,094 real changes made)

. replace status_miskin = 0 if (r105 == 2 & kapita >= 500688)
(6,944 real changes made)

.
. //Membuat variabel x1 status bekerja krt
. generate x1 = .
(11,070 missing values generated)

. // Mengubah nilai x1 menjadi 1 jika R.703A tidak dipilih (misalnya jika
703A adalah 0) dan R.7
> 05 berkode 5
. replace x1 = 1 if r703_a != "A" & r705 == 5 & r707!=7
(905 real changes made)

. // Mengubah nilai x1 menjadi 0 jika R.703A dipilih (misalnya jika 703A
adalah 1) atau R.705 be
> rkode 1
. replace x1 = 0 if r703_a == "A" | r705 == 1
(10,165 real changes made)

. label variable x1 "Status bekerja KRT"

. label define kerja_label 0 "Bekerja" 1 "Tidak bekerja"

. label values x1 kerja_label

.
.
. // Membuat variabel baru x2 dengan nilai default 0
. generate x2 = .
(11,070 missing values generated)

. // Mengubah nilai x2 menjadi 1 jika salah satu dari 1701, 1702,1704,
1705, 1707, 1708 berkode
> 1
. replace x2 = 0 if (r1701 != 1 & r1702 != 1 & r1703 != 1 & r1704 != 1 &
r1705 != 1 & r1706 != 1
> & r1707 != 1 & r1708 != 1)

```

```

(8,876 real changes made)
. replace x2 = 1 if (r1701 == 1 | r1702 == 1 | r1703 == 1 | r1704 == 1 |
r1705 == 1 | r1706 == 1
> | r1707 == 1 | r1708 == 1)
(2,194 real changes made)

. label variable x2 "Pengalaman kekurangan pangan"

. label define pangan_label 0 "Tidak pernah" 1 "Pernah"

. label values x2 pangan_label

.
. // Membuat variabel baru x3
. generate x3 = .
(11,070 missing values generated)

. replace x3 = 0 if (food/pend)*100 < 50
(2,548 real changes made)

. replace x3 = 1 if (food/pend)*100 >= 50
(8,522 real changes made)

. label variable x3 "Proporsi pengeluaran kebutuhan makan"

. label define proporsi_label 0 "Lebih kecil atau sama" 1 "Lebih besar"

. label values x3 proporsi_label

.
. // Membuat variabel baru x4
. generate x4 = .
(11,070 missing values generated)

. replace x4 = 0 if belanja_pakaian == 0
(10,956 real changes made)

. replace x4 = 1 if belanja_pakaian == 1
(114 real changes made)

. label variable x4 "Belanja pakaian"

. label define pakaian_label 0 "Ada pengeluaran" 1 "Tidak ada
pengeluaran"

. label values x4 pakaian_label

.
. // Membuat variabel baru x5
. generate x5 = .
(11,070 missing values generated)

. replace x5 = 0 if inlist(r1808, 1,2,3,4,5,7,9)
(6,854 real changes made)

. replace x5 = 1 if inlist(r1808, 6, 8)
(4,216 real changes made)

. label variable x5 "Jenis lantai tempat tinggal"

. label define lantai_label 0 "selain tanah/plesteran" 1
"Tanah/plesteran"

. label values x5 lantai_label

.
. // Membuat variabel baru x6
. generate x6 = .
(11,070 missing values generated)

. replace x6=0 if inlist(r1807, 1)

```

```

(7,488 real changes made)
. replace x6 = 1 if inlist(r1807, 2, 3, 4, 5, 6, 7)
(3,582 real changes made)
. label variable x6 "Jenis Dinding tempat tinggal"
. label define dinding_label 0 "Dinding tembok" 1 "Dinding selain tembok"
. label values x6 dinding_label

.
. // Membuat variabel baru x7
. generate x7 = .
(11,070 missing values generated)
. replace x7=0 if inlist(r1809a, 1,2,5)
(9,946 real changes made)
. replace x7 = 1 if inlist(r1809a, 3, 4, 6)
(1,124 real changes made)
. label variable x7 "Kepemilikan jamban"
. label define jamban_label 0 "Memiliki jamban sendiri" 1 "Tidak memiliki
jamban"
. label values x7 jamban_label

.
. // Membuat variabel baru x8
. generate x8 = .
(11,070 missing values generated)
. replace x8 = 0 if inlist(r1816b, 2,3)
(6,922 real changes made)
. replace x8 = 1 if inlist(r1816,2,3,4) | r1816b1 == 1
(4,148 real changes made)
. label variable x8 "Sumber penerangan"
. label define penerangan_label 0 "Listrik (lebih dari 450 VA)" 1 "Bukan
listrik / listrik <= 45
> 0 VA"
. label values x8 penerangan_label

.
. //Membuat variabel baru x9
. generate x9=.
(11,070 missing values generated)
. replace x9=0 if r301 < 5
(8,464 real changes made)
. replace x9=1 if r301> 4
(2,606 real changes made)
. label variable x9 "Jumlah ART"
. label define art_label 0 "1-4 orang" 1 "5 orang atau lebih"
. label values x9 art_label

.
. // Membuat variabel baru x10
. generate x10 = .
(11,070 missing values generated)
. replace x10 = 1 if r105 == 1
(3,453 real changes made)

```

```

. replace x10 = 2 if r105 == 2
(7,617 real changes made)

. label variable x10 "Klasifikasi desa/kota"

. label define wilayah_label 1 "Perkotaan" 2 "Perdesaan"

. label values x10 wilayah_label

.
. save "data_baru.dta", replace
file data_baru.dta saved

.
. //1. Analisis univariate
. // Deskripsi statistik untuk variabel kategorikal
. tabulate status_miskin [aweight=wert]

```

| Status Kemiskinan Rumah Tangga | Freq. | Percent | Cum. |
|--------------------------------------|------------|---------|--------|
| Tidak miskin | 10,008.94 | 90.41 | 90.41 |
| Miskin | 1,061.0599 | 9.59 | 100.00 |
| Total | 11,070 | 100.00 | |

```

. tabulate x1 [aweight=wert]

```

| Status bekerja KRT | Freq. | Percent | Cum. |
|-----------------------|------------|---------|--------|
| Bekerja | 10,112.842 | 91.35 | 91.35 |
| Tidak bekerja | 957.158065 | 8.65 | 100.00 |
| Total | 11,070 | 100.00 | |

```

. tabulate x2 [aweight=wert]

```

| Pengalaman kekurangan pangan | Freq. | Percent | Cum. |
|------------------------------------|------------|---------|--------|
| Tidak pernah | 8,940.7567 | 80.77 | 80.77 |
| Pernah | 2,129.2433 | 19.23 | 100.00 |
| Total | 11,070 | 100.00 | |

```

. tabulate x3 [aweight=wert]

```

| Proporsi pengeluaran kebutuhan makan | Freq. | Percent | Cum. |
|---|------------|---------|--------|
| Lebih kecil atau sama | 2,521.6576 | 22.78 | 22.78 |
| Lebih besar | 8,548.3424 | 77.22 | 100.00 |
| Total | 11,070 | 100.00 | |

```

. tabulate x4 [aweight=wert]

```

| Belanja pakaian | Freq. | Percent | Cum. |
|-----------------------|------------|---------|--------|
| Ada pengeluaran | 10,981.936 | 99.20 | 99.20 |
| Tidak ada pengeluaran | 88.0637632 | 0.80 | 100.00 |
| Total | 11,070 | 100.00 | |

```

. tabulate x5 [aweight=wert]

```

| Jenis lantai tempat tinggal | Freq. | Percent | Cum. |
|--------------------------------|------------|---------|-------|
| Selain tanah/plesteran | 7,092.8023 | 64.07 | 64.07 |

| | | | |
|-----------------|------------|--------|--------|
| Tanah/plesteran | 3,977.1977 | 35.93 | 100.00 |
| Total | 11,070 | 100.00 | |

. tabulate x6 [aweight=wert]

| Jenis Dinding tempat tinggal | Freq. | Percent | Cum. |
|------------------------------|-------------|---------|--------|
| Dinding tembok | 7,567.35108 | 68.36 | 68.36 |
| Dinding selain tembok | 3,502.64892 | 31.64 | 100.00 |
| Total | 11,070 | 100.00 | |

. tabulate x7 [aweight=wert]

| Kepemilikan jamban | Freq. | Percent | Cum. |
|-------------------------|------------|---------|--------|
| Memiliki jamban sendiri | 10,195.068 | 92.10 | 92.10 |
| Tidak memiliki jamban | 874.931948 | 7.90 | 100.00 |
| Total | 11,070 | 100.00 | |

. tabulate x8 [aweight=wert]

| Sumber penerangan | Freq. | Percent | Cum. |
|-----------------------------------|------------|---------|--------|
| Listrik (lebih dari 450 VA) | 7,227.4524 | 65.29 | 65.29 |
| Bukan listrik / listrik <= 450 VA | 3,842.5476 | 34.71 | 100.00 |
| Total | 11,070 | 100.00 | |

. tabulate x9 [aweight=wert]

| Jumlah ART | Freq. | Percent | Cum. |
|--------------------|-------------|---------|--------|
| 1-4 orang | 7,236.16158 | 65.37 | 65.37 |
| 5 orang atau lebih | 3,833.83842 | 34.63 | 100.00 |
| Total | 11,070 | 100.00 | |

. tabulate x10 [aweight=wert]

| Klasifikasi desa/kota | Freq. | Percent | Cum. |
|-----------------------|------------|---------|--------|
| Perkotaan | 4,109.4019 | 37.12 | 37.12 |
| Perdesaan | 6,960.5981 | 62.88 | 100.00 |
| Total | 11,070 | 100.00 | |

.

.

.

. //2. Analisis Bivariate

. // Uji Chi-Square antara status_miskin dan x1

. tabulate status_miskin x1, chi2

| Status Kemiskinan Rumah Tangga | Status bekerja KRT | | Total |
|--------------------------------|--------------------|-----------|--------|
| | Bekerja | Tidak bek | |
| Tidak miskin | 9,221 | 817 | 10,038 |
| Miskin | 944 | 88 | 1,032 |
| Total | 10,165 | 905 | 11,070 |

Pearson chi2(1) = 0.1877 Pr = 0.665

.

. // Uji Chi-Square antara status_miskin dan x2

. tabulate status_miskin x2, chi2

| Status Kemiskinan Rumah Tangga | Pengalaman kekurangan pangan | | Total |
|--------------------------------------|---------------------------------|--------|--------|
| | Tidak per | Pernah | |
| Tidak miskin | 8,258 | 1,780 | 10,038 |
| Miskin | 618 | 414 | 1,032 |
| Total | 8,876 | 2,194 | 11,070 |

Pearson chi2(1) = 295.0414 Pr = 0.000

. // Uji Chi-Square antara status_miskin dan x3
. tabulate status_miskin x3, chi2

| Status Kemiskinan Rumah Tangga | Proporsi pengeluaran kebutuhan makan | | Total |
|--------------------------------------|---|-----------|--------|
| | Lebih kec | Lebih bes | |
| Tidak miskin | 2,490 | 7,548 | 10,038 |
| Miskin | 58 | 974 | 1,032 |
| Total | 2,548 | 8,522 | 11,070 |

Pearson chi2(1) = 194.3943 Pr = 0.000

. // Uji Chi-Square antara status_miskin dan x4
. tabulate status_miskin x4, chi2

| Status Kemiskinan Rumah Tangga | Belanja pakaian | | Total |
|--------------------------------------|-----------------|-----------|--------|
| | Ada penge | Tidak ada | |
| Tidak miskin | 9,946 | 92 | 10,038 |
| Miskin | 1,010 | 22 | 1,032 |
| Total | 10,956 | 114 | 11,070 |

Pearson chi2(1) = 13.5600 Pr = 0.000

. // Uji Chi-Square antara status_miskin dan x5
. tabulate status_miskin x5, chi2

| Status Kemiskinan Rumah Tangga | Jenis lantai tempat tinggal | | Total |
|--------------------------------------|--------------------------------|-----------|--------|
| | Selain ta | Tanah/ple | |
| Tidak miskin | 6,334 | 3,704 | 10,038 |
| Miskin | 520 | 512 | 1,032 |
| Total | 6,854 | 4,216 | 11,070 |

Pearson chi2(1) = 64.1357 Pr = 0.000

. // Uji Chi-Square antara status_miskin dan x6
. tabulate status_miskin x6, chi2

| Status Kemiskinan Rumah Tangga | Jenis Dinding tempat tinggal | | Total |
|--------------------------------------|---------------------------------|-----------|--------|
| | Dinding t | Dinding s | |
| Tidak miskin | 6,908 | 3,130 | 10,038 |
| Miskin | 580 | 452 | 1,032 |
| Total | 7,488 | 3,582 | 11,070 |

Pearson chi2(1) = 68.0599 Pr = 0.000

. // Uji Chi-Square antara status_miskin dan x7

```
. tabulate status_miskin x7, chi2
```

| Status Kemiskinan Rumah Tangga | Kepemilikan jamban | | Total |
|--------------------------------------|--------------------|-----------|--------|
| | Memiliki | Tidak mem | |
| Tidak miskin | 9,134 | 904 | 10,038 |
| Miskin | 812 | 220 | 1,032 |
| Total | 9,946 | 1,124 | 11,070 |

Pearson chi2(1) = 155.4965 Pr = 0.000

```
. // Uji Chi-Square antara status_miskin dan x8  
. tabulate status_miskin x8, chi2
```

| Status Kemiskinan Rumah Tangga | Sumber penerangan | | Total |
|--------------------------------------|-------------------|-----------|--------|
| | Listrik (| Bukan lis | |
| Tidak miskin | 6,417 | 3,621 | 10,038 |
| Miskin | 505 | 527 | 1,032 |
| Total | 6,922 | 4,148 | 11,070 |

Pearson chi2(1) = 89.7800 Pr = 0.000

```
. // Uji Chi-Square antara status_miskin dan x9  
. tabulate status_miskin x9, chi2
```

| Status Kemiskinan Rumah Tangga | Jumlah ART | | Total |
|--------------------------------------|------------|-----------|--------|
| | 1-4 orang | 5 orang a | |
| Tidak miskin | 7,977 | 2,061 | 10,038 |
| Miskin | 487 | 545 | 1,032 |
| Total | 8,464 | 2,606 | 11,070 |

Pearson chi2(1) = 541.6769 Pr = 0.000

```
. // Uji Chi-Square antara status_miskin dan x10  
. tabulate status_miskin x10, chi2
```

| Status Kemiskinan Rumah Tangga | Klasifikasi desa/kota | | Total |
|--------------------------------------|-----------------------|-----------|--------|
| | Perkotaan | Perdesaan | |
| Tidak miskin | 3,094 | 6,944 | 10,038 |
| Miskin | 359 | 673 | 1,032 |
| Total | 3,453 | 7,617 | 11,070 |

Pearson chi2(1) = 6.8509 Pr = 0.009

```
.  
. //3. Analisis multivariate  
. //regresi logistik  
. // logit status_miskin x1 x2 x3 x4 x5 x6 x7 x8 x9 x10, vce(robust)  
. //  
. // logistic status_miskin x1 x2 x3 x4 x5 x6 x7 x8 x9 x10, vce(robust)  
. logit status_miskin x1 x2 x3 x4 x5 x6 x7 x8 x9 x10
```

```
Iteration 0: log likelihood = -3430.995  
Iteration 1: log likelihood = -3000.7257  
Iteration 2: log likelihood = -2866.0188  
Iteration 3: log likelihood = -2863.3182
```

Iteration 4: log likelihood = -2863.314
 Iteration 5: log likelihood = -2863.314

Logistic regression
 11,070
 1135.36
 0.0000
 Log likelihood = -2863.314
 0.1655

Number of obs =
 LR chi2(10) =
 Prob > chi2 =
 Pseudo R2 =

```

-----
status_miskin | Coefficient  Std. err.      z    P>|z|    [95% conf.
interval]
-----+-----
-----
      x1 |   .1100908   .1285087     0.86   0.392
-0.1417816 |   .3619632
      x2 |   .9227281   .074569     12.37   0.000   .7765756
1.068881 |
      x3 |    1.3942   .1429336     9.75   0.000   1.114055
1.674344 |
      x4 |   .7657959   .2608893     2.94   0.003   .2544622
1.27713 |
      x5 |   .5232389   .0727819     7.19
0.000 |   .3805891   .6658887
      x6 |   .3380295   .0776861     4.35
0.000 |   .1857675   .4902916
      x7 |   .7946372   .0956962     8.30
0.000 |   .6070762   .9821982
      x8 |   .4642131   .0718072     6.46
0.000 |   .3234736   .6049527
      x9 |   1.576875   .0721438    21.86   0.000   1.435476
1.718274 |
      x10 |  -0.5821981   .0792474    -7.35   0.000  -0.7375202
-0.426876 |
      _cons | -4.029903   .1827779   -22.05   0.000  -4.388141
3.671664 |
-----
  
```

. logistic status_miskin x1 x2 x3 x4 x5 x6 x7 x8 x9 x10

Logistic regression
 11,070
 1135.36
 0.0000
 Log likelihood = -2863.314
 0.1655

Number of obs =
 LR chi2(10) =
 Prob > chi2 =
 Pseudo R2 =

```

-----
status_miskin | Odds ratio  Std. err.      z    P>|z|    [95% conf.
interval]
-----+-----
-----
      x1 |   1.116379   .1434644     0.86   0.392   .8678107
1.436146 |
      x2 |   2.516145   .1876265    12.37   0.000   2.174015
2.912118 |
      x3 |   4.031746   .5762719     9.75   0.000   3.046688
5.335296 |
      x4 |   2.150705   .5610961     2.94   0.003   1.289768
3.586331 |
      x5 |   1.687484   .1228183     7.19   0.000   1.463146
1.946219 |
      x6 |   1.402182   .1089301     4.35   0.000   1.204142
1.632792 |
-----
  
```


| | | | | | | | |
|----------|-------|--|----------|----------|--------|-------|----------|
| 2.67032 | x7 | | 2.213638 | .2118366 | 8.30 | 0.000 | 1.835058 |
| 1.831166 | x8 | | 1.590762 | .1142282 | 6.46 | 0.000 | 1.38192 |
| 5.574899 | x9 | | 4.839808 | .3491621 | 21.86 | 0.000 | 4.201644 |
| 0.000 | x10 | | .558669 | .0442731 | -7.35 | | |
| | | | .4782986 | .6525444 | | | |
| 0.000 | _cons | | .0177761 | .0032491 | -22.05 | | |
| | | | .0124238 | .0254341 | | | |

 Note: _cons estimates baseline odds.

. // Output uji Hosmer-Lemeshow
 . estat gof, group(10)
 note: obs collapsed on 10 quantiles of estimated probabilities.

Goodness-of-fit test after logistic model
 Variable: status_miskin

Number of observations = 11,070
 Number of groups = 10
 Hosmer-Lemeshow chi2(8) = 10.20
 Prob > chi2 = 0.2514

.
 . end of do-file

.