

```

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

.

. // Memilih data yang akan digunakan
. keep D_Rurut psu ssu wil wi2 wert r101 r102 r105 r301 r703_a r705 r707 r1701 r1704
r1705 r1707 r1708 r1808 r1807 r1809a r1816 r1816b1 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"

.

. //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.705 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 berkode 1
. replace x1 = 0 if r703_a == "A" | r705 == 1
(10,165 real changes made)

. label variable x1 "Status bekerja KRT"

.

. // 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, 1704, 1705, 1707, 1708
berkode 1
. replace x2 = 0 if (r1701 != 1 & r1704 != 1 & r1705 != 1 & r1707 != 1 & r1708 != 1)
(9,006 real changes made)

. replace x2 = 1 if (r1701 == 1 | r1704 == 1 | r1705 == 1 | r1707 == 1 | r1708 == 1)
(2,064 real changes made)

. label variable x2 "Pengalaman kekurangan pangan"

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

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

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

. label variable x3 "Proporsi pengeluaran kebutuhan makan"

.
. // 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"

.
. // 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"

.
. // 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"

. // 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"

.
. // 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"

.
. //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"

.
. // 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"

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

.
. //1. Analisis Univariate
. // Deskripsi statistik untuk variabel kategorikal
. tabulate status_miskin

```

Status Kemiskinan Rumah Tangga	Freq.	Percent	Cum.
0	10,038	90.68	90.68
1	1,032	9.32	100.00
Total	11,070	100.00	

```

. tabulate x1

```

Status bekerja KRT	Freq.	Percent	Cum.
0	10,165	91.82	91.82
1	905	8.18	100.00
Total	11,070	100.00	

```

. tabulate x2

```

Pengalaman kekurangan pangan	Freq.	Percent	Cum.
0	9,006	81.36	81.36
1	2,064	18.64	100.00
Total	11,070	100.00	

. tabulate x3

Proporsi pengeluaran kebutuhan makan	Freq.	Percent	Cum.
0	2,548	23.02	23.02
1	8,522	76.98	100.00
Total	11,070	100.00	

. tabulate x4

Belanja pakaian	Freq.	Percent	Cum.
0	10,956	98.97	98.97
1	114	1.03	100.00
Total	11,070	100.00	

. tabulate x5

Jenis lantai tempat tinggal	Freq.	Percent	Cum.
0	6,854	61.92	61.92
1	4,216	38.08	100.00
Total	11,070	100.00	

. tabulate x6

Jenis Dinding tempat tinggal	Freq.	Percent	Cum.
---------------------------------------	-------	---------	------

0	7,488	67.64	67.64
1	3,582	32.36	100.00
Total	11,070	100.00	

. tabulate x7

Kepemilikan jamban	Freq.	Percent	Cum.
0	9,946	89.85	89.85
1	1,124	10.15	100.00
Total	11,070	100.00	

. tabulate x8

Sumber penerangan	Freq.	Percent	Cum.
0	6,922	62.53	62.53
1	4,148	37.47	100.00
Total	11,070	100.00	

. tabulate x9

Jumlah ART	Freq.	Percent	Cum.
0	8,464	76.46	76.46
1	2,606	23.54	100.00
Total	11,070	100.00	

. tabulate x10

Klasifikasi desa/kota	Freq.	Percent	Cum.
1	3,453	31.19	31.19
2	7,617	68.81	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
	0	1	
0	9,221	817	10,038
1	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
	0	1	
0	8,364	1,674	10,038
1	642	390	1,032
Total	9,006	2,064	11,070

Pearson chi2(1) = 275.0279 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
	0	1	
0	2,490	7,548	10,038
1	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	Belanja pakaian		
Rumah Tangga	0	1	Total
0	9,946	92	10,038
1	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	Jenis lantai tempat tinggal		
Rumah Tangga	0	1	Total
0	6,334	3,704	10,038
1	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	Jenis Dinding tempat tinggal		
Rumah Tangga	0	1	Total
0	6,908	3,130	10,038
1	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	Kepemilikan jamban		Total
	Rumah Tangga		
	0	1	
0	9,134	904	10,038
1	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	Sumber penerangan		Total
	Rumah Tangga		
	0	1	
0	6,417	3,621	10,038
1	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	Jumlah ART		Total
	Rumah Tangga		
	0	1	
0	7,977	2,061	10,038
1	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		Total
	Klasifikasi desa/kota		
	1	2	
0	3,094	6,944	10,038
1	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)
```

```
Iteration 0: log pseudolikelihood = -3430.995
Iteration 1: log pseudolikelihood = -3005.2119
Iteration 2: log pseudolikelihood = -2872.2066
Iteration 3: log pseudolikelihood = -2869.5352
Iteration 4: log pseudolikelihood = -2869.531
Iteration 5: log pseudolikelihood = -2869.531
```

Logistic regression

Number of obs = 11,070
Wald chi2(10) = 963.34
Prob > chi2 = 0.0000
Pseudo R2 = 0.1636

Log pseudolikelihood = -2869.531

status_miskin	Robust		z	P> z	[95% conf. interval]	
	Coefficient	std. err.				
x1	.1142022	.128537	0.89	0.374	-.1377257	.36613
x2	.8966396	.0771485	11.62	0.000	.7454313	1.047848
x3	1.40551	.1434338	9.80	0.000	1.124385	1.686635
x4	.7646239	.2439262	3.13	0.002	.2865373	1.24271
x5	.5299144	.0734365	7.22	0.000	.3859814	.6738474
x6	.3464072	.0765129	4.53	0.000	.1964447	.4963696
x7	.7948451	.0975401	8.15	0.000	.60367	.9860202
x8	.4646402	.0721833	6.44	0.000	.3231636	.6061168
x9	1.572223	.072612	21.65	0.000	1.429906	1.71454
x10	-.5794043	.0796217	-7.28	0.000	-.7354599	-.4233486
_cons	-4.026257	.179558	-22.42	0.000	-4.378185	-3.67433

```
. logistic status_miskin x1 x2 x3 x4 x5 x6 x7 x8 x9 x10, vce(robust)
```

```
Logistic regression                               Number of obs = 11,070
                                                    Wald chi2(10) = 963.34
                                                    Prob > chi2   = 0.0000
Log pseudolikelihood = -2869.531                 Pseudo R2    = 0.1636
```

status_miskin	Odds ratio	Robust std. err.	z	P> z	[95% conf. interval]	
x1	1.120979	.1440872	0.89	0.374	.8713377	1.442143
x2	2.451352	.1891182	11.62	0.000	2.10735	2.851508
x3	4.077607	.5848665	9.80	0.000	3.078324	5.401277
x4	2.148186	.5239989	3.13	0.002	1.331808	3.464992
x5	1.698787	.124753	7.22	0.000	1.471057	1.96177
x6	1.413978	.1081875	4.53	0.000	1.217068	1.642747
x7	2.214098	.2159634	8.15	0.000	1.828818	2.680545
x8	1.591441	.1148754	6.44	0.000	1.381491	1.833298
x9	4.817344	.349797	21.65	0.000	4.178305	5.554118
x10	.560232	.0446066	-7.28	0.000	.479285	.6548503
_cons	.017841	.0032035	-22.42	0.000	.0125481	.0253664

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) = 10.30  
Prob > chi2 = 0.2444
```

```
.  
.  
end of do-file
```