



User: Tianhao_Wang

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1 . do "C:\Users\MDW615-CAF\AppData\Local\Temp\STD296c_000000.tmp"
2 . use C:\Users\MDW615-CAF\Downloads\hwldata.dta, clear
3 .
4 . logit y i.x1 i.x2 i.x3 x4 x5 x6

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Iteration 0:  log likelihood = -82.760511
Iteration 1:  log likelihood = -30.57662
Iteration 2:  log likelihood = -28.750296
Iteration 3:  log likelihood = -28.672363
Iteration 4:  log likelihood = -28.672342
Iteration 5:  log likelihood = -28.672342

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Logistic regression                                Number of obs      =          120
                                                    LR chi2(6)         =        108.18
                                                    Prob > chi2        =         0.0000
Log likelihood = -28.672342                        Pseudo R2         =         0.6536

```

y	Coef.	Std. Err.	z	P> z	[95% Conf. Interval]	
1.x1	3.415127	.9586819	3.56	0.000	1.536145	5.294109
1.x2	-5.768404	1.321964	-4.36	0.000	-8.359406	-3.177402
1.x3	4.609453	1.064614	4.33	0.000	2.522848	6.696058
x4	1.544106	.4804108	3.21	0.001	.602518	2.485694
x5	-4.106603	.9933383	-4.13	0.000	-6.053511	-2.159696
x6	.5345794	.2733479	1.96	0.051	-.0011727	1.070331
_cons	-1.565264	.8618573	-1.82	0.069	-3.254473	.1239449

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5 . margin x2, atmeans

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Adjusted predictions                                Number of obs      =          120
Model VCE      : OIM

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```

Expression    : Pr(y), predict()
at            : 0.x1      =      .5083333 (mean)
               1.x1      =      .4916667 (mean)
               0.x2      =      .4916667 (mean)
               1.x2      =      .5083333 (mean)
               0.x3      =      .5166667 (mean)
               1.x3      =      .4833333 (mean)
               x4        =     -.0947296 (mean)
               x5        =     -.0049466 (mean)
               x6        =      1.411335 (mean)

```

	Delta-method		z	P> z	[95% Conf. Interval]	
	Margin	Std. Err.				
x2						
0	.9512121	.0337891	28.15	0.000	.8849866	1.017438
1	.0574242	.0409645	1.40	0.161	-.0228646	.1377131

Adjusted predictions	Number of obs	=	120
Model VCE : OIM			

```

Expression : Pr(y), predict()
at          : 0.x1      = .5083333 (mean)
              1.x1      = .4916667 (mean)
              0.x2      = .4916667 (mean)
              1.x2      = .5083333 (mean)
              0.x3      = .5166667 (mean)
              1.x3      = .4833333 (mean)
              x4        = -.0947296 (mean)
              x5        = -.0049466 (mean)
              x6        = 1.411335 (mean)

```

	Delta-method					
	Margin	Std. Err.	z	P> z	[95% Conf. Interval]	
x2						
0	.9565505	.0364217	26.26	0.000	.8851653	1.027936
1	.0534945	.0451958	1.18	0.237	-.0350876	.1420766

10 . margin, dydx(x5) atmeans

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Conditional marginal effects      Number of obs      =      120
Model VCE      : OIM

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Expression : Pr(y), predict()
dy/dx w.r.t. : x5
at          : 0.x1      = .5083333 (mean)
              1.x1      = .4916667 (mean)
              0.x2      = .4916667 (mean)
              1.x2      = .5083333 (mean)
              0.x3      = .5166667 (mean)
              1.x3      = .4833333 (mean)
              x4        = -.0947296 (mean)
              x5        = -.0049466 (mean)
              x6        = 1.411335 (mean)

```

	Delta-method					
	dy/dx	Std. Err.	z	P> z	[95% Conf. Interval]	
x5	-.949499	.2200251	-4.32	0.000	-1.38074	-.5182578

11 .
end of do-file

12 .