```
. use /Users/piamahajan/Downloads/cps09mar.dta
(Written by R.              )

.
. gen experience= age-education-6

. gen experience_= experience^2/100

. reg l_earnings education experience experience_ ib7.marital if race== 1 & female==0 & hisp==1,r

Linear regression                               Number of obs     =      4,230
                                                F(8, 4220)        =          .
                                                Prob > F          =          .
                                                R-squared         =     0.2598
                                                Root MSE          =      .5832
```

l_earnings	Coefficient	Robust std. err.	t	P>|t|	[95% conf.	interval]
education	.0925492	.0030397	30.45	0.000	.0865898	.0985087
experience	.0294656	.0029174	10.10	0.000	.0237461	.0351852
experience_	-.0389595	.005693	-6.84	0.000	-.0501208	-.0277982
marital						
1	.2011946	.0253088	7.95	0.000	.151576	.2508132
2	-.121433	.0190438	-6.38	0.000	-.1587688	-.0840971
3	-.0249394	.0576897	-0.43	0.666	-.1380416	.0881627
4	.2129599	.1768278	1.20	0.229	-.1337157	.5596354
5	.0715837	.0454053	1.58	0.115	-.0174346	.1606019
6	.0106559	.0527091	0.20	0.840	-.0926818	.1139935
_cons	8.811622	.0478596	184.11	0.000	8.717792	8.905452

b)

```
. *part b
. constraint define 1 i1.marital-i4.marital=0

. constraint define 2 i5.marital-i6.marital=0

. cnsreg l_earnings education experience experience_ ib7.marital if race== 1 & female==0 & hisp==1, c(1,2) r

Constrained linear regression                   Number of obs =  4,230
                                                F(7, 4222)    = 485.99
                                                Prob > F      = 0.0000
                                                Root MSE      = 0.5831

 ( 1)  1.marital - 4.marital = 0
 ( 2)  5.marital - 6.marital = 0
```

l_earnings	Coefficient	Robust std. err.	t	P>|t|	[95% conf.	interval]
education	.0926892	.0030352	30.54	0.000	.0867386	.0986397
experience	.0295853	.0029115	10.16	0.000	.0238772	.0352934
experience_	-.0391396	.0056821	-6.89	0.000	-.0502794	-.0279998
marital						
1	.2007025	.0252972	7.93	0.000	.1511067	.2502983
2	-.1210816	.0190348	-6.36	0.000	-.1583999	-.0837634
3	-.0251486	.0576869	-0.44	0.663	-.1382452	.087948
4	.2007025	.0252972	7.93	0.000	.1511067	.2502983
5	.0520476	.038381	1.36	0.175	-.0231994	.1272946
6	.0520476	.038381	1.36	0.175	-.0231994	.1272946
_cons	8.808938	.0477254	184.58	0.000	8.715371	8.902505