



```

name: <unnamed>
log: C:\Users\Lara\Documents\Econometrics\hw3\recitation_2_log.smcl
log type: smcl
opened on: 4 Feb 2020, 19:51:51

```

```

1 . *use "nls80.dta", clear
2 . use "nls80.dta", clear
3 . gen wage_hr = wage/hours
4 . gen ln_wage = nlog(wage_hr)
   unknown function nlog()
   r(133);
5 . gen ln_wage = ln(wage_hr)
6 . reg ln_wage educ

```

Source	SS	df	MS	Number of obs	=	935
Model	12.6344636	1	12.6344636	F(1, 933)	=	65.72
Residual	179.370571	933	.192251416	Prob > F	=	0.0000
				R-squared	=	0.0658
				Adj R-squared	=	0.0648
Total	192.005035	934	.205572843	Root MSE	=	.43846

ln_wage	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
educ	.0529472	.0065313	8.11	0.000	.0401295	.065765
_cons	2.295423	.0891276	25.75	0.000	2.120509	2.470337

```
7 . reg ln_wage educ iq
```

Source	SS	df	MS	Number of obs	=	935
Model	17.1419931	2	8.57099655	F(2, 932)	=	45.68
Residual	174.863042	932	.18762129	Prob > F	=	0.0000
				R-squared	=	0.0893
				Adj R-squared	=	0.0873
Total	192.005035	934	.205572843	Root MSE	=	.43315

ln_wage	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
educ	.0339118	.0075308	4.50	0.000	.0191325	.048691
iq	.0053866	.001099	4.90	0.000	.0032299	.0075434
_cons	2.006229	.1059884	18.93	0.000	1.798226	2.214233

```
8 . reg ln_wage educ exper black
```

Source	SS	df	MS	Number of obs	=	935
Model	21.6275391	3	7.2091797	F(3, 931)	=	39.39
Residual	170.377496	931	.183004829	Prob > F	=	0.0000
				R-squared	=	0.1126
				Adj R-squared	=	0.1098
Total	192.005035	934	.205572843	Root MSE	=	.42779

ln_wage	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
educ	.0663689	.0072682	9.13	0.000	.0521049	.0806329
exper	.0200339	.003596	5.57	0.000	.0129766	.0270911
black	-.1739002	.0425369	-4.09	0.000	-.2573795	-.0904208
_cons	1.905308	.1242142	15.34	0.000	1.661536	2.149081

9 . reg ln_wage educ iq exper black

Source	SS	df	MS	Number of obs	=	935
Model	24.1201287	4	6.03003219	F(4, 930)	=	33.40
Residual	167.884906	930	.180521404	Prob > F	=	0.0000
				R-squared	=	0.1256
				Adj R-squared	=	0.1219
Total	192.005035	934	.205572843	Root MSE	=	.42488

ln_wage	Coef.	Std. Err.	t	P> t	[95% Conf. Interval]	
educ	.0528242	.0080869	6.53	0.000	.0369536	.0686948
iq	.0042768	.001151	3.72	0.000	.002018	.0065356
exper	.0199945	.0035716	5.60	0.000	.0129852	.0270037
black	-.1152115	.0451031	-2.55	0.011	-.2037271	-.0266959
_cons	1.647494	.1415403	11.64	0.000	1.369718	1.925269

10. log close
 name: <unnamed>
 log: C:\Users\Lara\Documents\Econometrics\hw3\recitation_2_log.smcl
 log type: smcl
 closed on: 4 Feb 2020, 20:55:41
