```
            ___  ___  ___  ___  ___   (R)
           /__    /   ___/  /   ___/
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     Notes:
          1.  You are running Small Stata.
          2.  Unicode is supported; see help unicode_advice.
          3.  New update available; type -update all-
```

1 . do "/Users/dailondolojan/Desktop/Econ 113/H2 Q5.do"

2 . use "/Users/dailondolojan/desktop/stata_data/college_gpa_1_", clear

3 .
4 . **Question 5**
5 . **Answers are on written sheet of paper**
6 . regress colGPA hsGPA

Source	SS	df	MS		Number of obs	=	141
					F(1, 139)	=	28.85
Model	3.33506006	1	3.33506006		Prob > F	=	0.0000
Residual	16.0710394	139	.115618988		R-squared	=	0.1719
					Adj R-squared	=	0.1659
Total	19.4060994	140	.138614996		Root MSE	=	.34003

colGPA	Coef.	Std. Err.	t	P>|t|	[95% Conf. Interval]	
hsGPA	.4824346	.0898258	5.37	0.000	.304833	.6600362
_cons	1.415434	.3069376	4.61	0.000	.8085635	2.022304

7 .
  end of do-file

8 . do "/Users/dailondolojan/Desktop/Econ 113/H2 Q6.do"

```
 9 . use "/Users/dailondolojan/desktop/stata_data/college_gpa_1_", clear

10 .
11 . **Question 6**
12 . **Answers are on written sheet of paper**
13 .
14 . **Part A**
15 . tab lecturesskipped
```

lecturesski pped	Freq.	Percent	Cum.
0	44	31.21	31.21
7.5	1	0.71	31.91
15	9	6.38	38.30
30	48	34.04	72.34
60	25	17.73	90.07
90	9	6.38	96.45
120	3	2.13	98.58
150	2	1.42	100.00
Total	141	100.00	

```
16 .
17 . **Part B**
18 . reg colGPA lecturesskipped
```

Source	SS	df	MS			
Model	1.33028272	1	1.33028272			
Residual	18.0758167	139	.130041847			
Total	19.4060994	140	.138614996			

Number of obs = 141
F(1, 139) = 10.23
Prob > F = 0.0017
R-squared = 0.0685
Adj R-squared = 0.0618
Root MSE = .36061

colGPA	Coef.	Std. Err.	t	P>|t|	[95% Conf. Interval]	
lecturesskipped	-.002984	.000933	-3.20	0.002	-.0048287	-.0011394
_cons	3.153084	.0427751	73.71	0.000	3.06851	3.237658

```
19 .
20 . **Part C**
21 . set obs 142
   number of observations (_N) was 141, now 142

22 . replace lecturesskipped = 20 if _n == 142
   (1 real change made)
```

```
23 . predict colGPAhat
   (option xb assumed; fitted values)


24 .
25 . **Part D**
26 . gen perweek = lecturesskipped/30

27 . reg colGPA perweek
```

Source	SS	df	MS
Model	1.33028272	1	1.33028272
Residual	18.0758167	139	.130041847
Total	19.4060994	140	.138614996

Number of obs	=	141
F(1, 139)	=	10.23
Prob > F	=	0.0017
R-squared	=	0.0685
Adj R-squared	=	0.0618
Root MSE	=	.36061

colGPA	Coef.	Std. Err.	t	P>|t|	[95% Conf.	Interval]
perweek	−.0895215	.0279896	−3.20	0.002	−.1448619	−.034181
_cons	3.153084	.0427751	73.71	0.000	3.06851	3.237658

```
28 .
29 . **Part E**
30 . gen nlcolGPA = log(colGPA)
   (1 missing value generated)

31 . reg nlcolGPA perweek
```

Source	SS	df	MS
Model	.145014145	1	.145014145
Residual	1.91318221	139	.013763901
Total	2.05819635	140	.014701403

Number of obs	=	141
F(1, 139)	=	10.54
Prob > F	=	0.0015
R-squared	=	0.0705
Adj R-squared	=	0.0638
Root MSE	=	.11732

nlcolGPA	Coef.	Std. Err.	t	P>|t|	[95% Conf.	Interval]
perweek	−.029557	.009106	−3.25	0.001	−.0475611	−.0115529
_cons	1.14185	.0139162	82.05	0.000	1.114336	1.169365

```
32 .
   end of do-file

33 .
```