

```
name:
              <unnamed>
        log:
              C:\Users\eaj628\Documents\hwk2.smcl
   log type:
              smcl
   opened on:
              24 Sep 2016, 20:34:05
1 . /*
           Assignment 2
           Evan Johnston
2
3 . set more off
4 . cd "\\tsclient\Stat Apps Server\hwk2"
  \\tsclient\Stat Apps Server\hwk2
6 . * prob 4
7 . use "\\tsclient\Stat Apps Server\Data Sets- STATA\bertrandmull.dta", clear
9 . * part 4.a
3. }
 Linear regression
                                                 Number of obs
                                                                          4,870
                                                 F(1, 4868)
                                                                           0.78
                                                 Prob > F
                                                                    =
                                                                          0.3767
                                                                          0.0002
                                                 R-squared
                                                                   =
                                                 Root MSE
                                                                           .4214
                              Robust
        female
                             Std. Err.
                                                           [95% Conf. Interval]
                      Coef.
                                            t
                                                 P>|t|
        black
                   .0106776
                               .012077
                                           0.88
                                                 0.377
                                                           -.0129987
                                                                        .0343539
                              .0086086
                                                            .7469837
                                                                        .7807371
                   .7638604
                                          88.73
                                                 0.000
         cons
                                                                           4,870
  Linear regression
                                                 Number of obs
                                                                   =
                                                 F(1, 4868)
                                                                           4.69
                                                 Prob > F
                                                                          0.0303
                                                                   =
                                                 R-squared
                                                                          0.0010
                                                 Root MSE
                                                                          .38364
                              Robust
  computersk~s
                      Coef.
                             Std. Err.
                                            t
                                                 P>|t|
                                                            [95% Conf. Interval]
        black
                   .0238193
                              .0109947
                                           2.17
                                                 0.030
                                                            .0022646
                                                                         .045374
                   .8086242
                              .0079736
                                        101.41
                                                 0.000
                                                            .7929923
                                                                        .8242562
         _cons
                                                                          4,870
  Linear regression
                                                 Number of obs
                                                 F(1, 4868)
                                                                   =
                                                                           0.03
                                                 Prob > F
                                                                   =
                                                                          0.8601
                                                 R-squared
                                                                    =
                                                                          0.0000
                                                 Root MSE
                                                                          1.2192
                              Robust
        ofjobs
                                                            [95% Conf. Interval]
                      Coef.
                             Std. Err.
                                            t
                                                 P>|t|
        black
                  -.0061602
                              .0349428
                                          -0.18
                                                 0.860
                                                           -.0746638
                                                                        .0623435
        _cons
                   3.664476
                              .0247103
                                         148.30
                                                 0.000
                                                            3.616033
                                                                         3.71292
```

Linear regression

Number of obs = 4,870 F(1, 4868) = 0.03 Prob > F = 0.8535 R-squared = 0.0000 Root MSE = 5.0451

yearsexp	Coef.	Robust Std. Err.	t	P> t	[95% Conf.	Interval]
black	026694	.1445894	-0.18	0.854	3101545	.2567664
_cons	7.856263	.1029315	76.33	0.000	7.654471	8.058055

11. 12. * part 4.b 13. tab education black

Total	1	black O	0=not reported; 1=HSD; 2=HSG; 3=some col; 4=col
	Τ.		
46 40 274 1,006 3,504	28 22 132 493 1,760	18 18 142 513 1,744	0 1 2 3 4
4,870	2,435	2,435	Total

14.
15. * part 4.c
16. mean call if black

Mean estimation

Number of obs = 2,435

	Mean	Std. Err.	[95% Conf.	Interval]
call	.0644764	.0049781	.0547145	.0742382

- 17. local d1 = $_b[call]$
- 18. * Note that this [Avg(call \mid not black)] is the baseline to compare against 19. mean call if !black

Mean estimation

Number of obs = 2,435

	Mean	Std. Err.	[95% Conf.	Interval]
call	.0965092	.0059853	.0847724	.1082461

- 20. local d0 = b[call]
- 21. * The calculated ATE:
 22. display `d1'-`d0'
 -.03203285

23. regress call black, robust

Linear regression

Number of obs	=	4,870
F(1, 4868)	=	16.93
Prob > F	=	0.0000
R-squared	=	0.0035
Root MSE	=	.27164

call	Coef.	Robust Std. Err.	t	P> t	[95% Conf.	Interval]
black	0320329	.007785	-4.11	0.000	0472949	0167708
_cons	.0965092	.0059853	16.12	0.000	.0847753	.1082431

- 24. * Note that [Avg(call | black) Avg(call | not black)] =~ Coef. Black
- 25. 26. * part 4.d & e
- 27. regress call education ofjobs yearsexp computerskills female black, robust

Linear regression

Number of obs	=	4,870
F(6, 4863)	=	5.96
Prob > F	=	0.0000
R-squared	=	0.0082
Root, MSE	=	.27114

call	Coef.	Robust Std. Err.	t	P> t	[95% Conf.	Interval]
education ofjobs yearsexp computerskills female black cons	0009213 0026042 .0033516 0175576 .0105578 0316585 .0891904	.0056877 .003694 .0008754 .0114271 .009598 .0077655	-0.16 -0.71 3.83 -1.54 1.10 -4.08 3.47	0.871 0.481 0.000 0.124 0.271 0.000 0.001	0120718 0098461 .0016353 0399598 0082587 0468823 .0387386	.0102291 .0046376 .0050678 .0048447 .0293743 0164347

28.

29. log close

<unnamed> name:

log: C:\Users\eaj628\Documents\hwk2.smcl

log type: smcl

closed on: 24 Sep 2016, 20:34:06