(R)						
/ / _	/				/ '	/ /
/ / /_	/			-	, , , ,	•
analysis					Statis	tics/Data
		unnamed> Jsers/muhaoli	/Documents,	/24-25/ECON	I 410/hw!	5/
log t	ype: sn on: 2	ncl 2 Dec 2024, 2	2:45:56			
1 . use	"loanapp	o.dta"				
2 . regr	ess appr	rove white				
s = 1,989	ource	SS	df	MS	Numbe	er of obs
= 102.23	+-				- F(1,	1987)
0.000	Model	10.4743407	1	10.4743407	' Prob	> F
	idual	203.59303	1,987	.102462521	R-sq	uared
	+-				- Adj I	R-squared
= 0.0485 = .3201	Total	214.067371	1,988	.107679764	Root	MSE
ap conf. interva		Coefficient	Std. err.	t	P> t	[95%
		.2005957	.01984	10.11	0.000	
.1616864 .6720221	_cons	.7077922	.0182393	38.81	0.000	

3 . regress approve white hrat obrat loanprc unem male married dep sch cosign chi

> st pubrec mortlat1 mortlat2 vr

_	Source	SS	df	MS	Number of obs
=	1,971 +				F(15, 1955)
=	25.86 Model	35.4004789	15	2.36003193	Prob > F
=		178.393534	1,955	.09124989	R-squared
=	0.1656 +				Adj R-squared
=	0.1592	242 704042	1 070	10052400	
=	Total .30208	213.794013	1,970	.10852488	Root MSE

approve | Coefficient Std. err. t P>|t| [95% conf. interval] white | .1288196 .0197317 6.53 0.000 .0901223 .1675169 hrat | .001833 .0012632 1.45 0.147 .0043104 -.0006444 obrat | -.0054318 .0011018 -4.93 0.000 -.0075926 -.003271 loanprc | -.1473001 .0375159 -3.93 0.000 -.2208755 -.0737247 unem | -.0072989 .003198 -2.28 0.023 -.0135708 -.0010271 male | -.0041441 .0188644 -0.22 0.826 -.0411405 .0328523 married | .0458241 .0163077 2.81 0.005 .0138418 .0778064 -1.02 0.308 dep | -.0068274 .0067013 -.0199699 .0063151 sch | .0017525 .0166498 0.11 0.916 -.0309006 .0344057 .0411394 0.24 cosign | .0097722 0.812 -.0709094 .0904538 chist | .0192627 6.91 .1330267 0.000 .0952492 **.**1708043 pubrec | -.2419268 **.**0282274 -8**.**57 0.000 -.2972858 -.1865677 .050012 mortlat1 | -.0572511 -1.14 0.252 .0408314 -.1553336

	mortlat2	1137234	.0669838	-1.70	0.090
2450905	.0176438				
	vr	0314408	.0140313	-2.24	0.025
0589586	0039229				
	_cons	.9367312	.0527354	17.76	0.000
.8333077	1.040155				

- 4 . gen white_obrat=white*obrat
- ${\bf 5}$. regress approve white obrat white_obrat

_	Source 1,989	SS	df	MS	Number of obs
_	+				F(3, 1985)
=	56.03 Model 0.0000	16.7108334	3	5.57027779	Prob > F
_		197.356537	1,985	.099423948	R-squared
_	+				Adj R-squared
=	0.0767 Total	214.067371	1,988	.107679764	Root MSE
=	.31532				

conf. inte	approve Coefficient rval]	Std. err.	t	P> t	[95%
+	 				
2618232	white 099083 .0636572	.0829816	-1.19	0.233	
0174325	obrat 0131656 0088986	.0021757	-6.05	0.000	
whi	te_obrat . 0083778	.0023689	3.54	0.000	
.003732	.0130236 _cons 1.160773	.0769852	15.08	0.000	
1.009793	1.311753				

6 . clear

7 . dir

```
total 1336
     -rw-r--red 1 muhaoli staff 99304 Dec 2 15:00 Problem set
5.pdf
     -rw-r--r-- 1 muhaoli staff 7213 Dec 2 23:03 hw5logs.smcl -rw-r--r--@ 1 muhaoli staff 533507 Dec 2 15:00 loanapp.dta
     -rw-r--re-@ 1 muhaoli staff 34779 Dec 2 14:59 pntsprd.dta
    8 . use pntsprd.dta
    9 . regress favwin spread
                          df MS Number of obs
          Source | SS
       553
                                                 F(1, 551)
     68.57
           0.0000
        Residual | 88.9038241 551 .161349953 R-squared
    0.1107
              ---+---- Adi R-squared
    0.1091
           Total | 99.9674503 552 .181100453 Root MSE
   .40168
          favwin | Coefficient Std. err. t P>|t| [95%
conf. interval]
         spread | .0193655 .0023386 8.28 0.000
.0147718 .0239593
_cons | .5769492 .0282345 20.43 0.000 .5214888 .6324097
   10 \cdot test _{cons} = 0.5
      (1) cons = .5
           F(1, 551) = 7.43

Prob > F = 0.0066
   11 .
   12 . regress favwin spread, robust
```

Number of obs

Linear regression

```
= 553
                                                  F(1, 551)
    101.54
                                                  Prob > F
     0.0000
=
                                                  R-squared
= 0.1107
                                                  Root MSE
= .40168
                                Robust
           favwin | Coefficient std. err. t P>|t| [95%
conf. interval]
          spread | .0193655 .0019218 10.08 0.000
.0155905 .0231405
           _cons | .5769492 .0316568 18.23 0.000
.5147664 .6391321
   13 \cdot test _cons = 0.5
      (1) _{cons} = .5
            F(1, 551) = 5.91

Prob > F = 0.0154
   14 .
   15 . probit favwin spread
     Iteration 0: Log likelihood = -302.74988
     Iteration 1: Log likelihood = -264.91454
     Iteration 2: Log likelihood = -263.56319
     Iteration 3: Log likelihood = -263.56219
     Iteration 4: Log likelihood = -263.56219
     Probit regression
                                                          Number
of obs = 553
                                                          LR
chi2(1) = 78.38
                                                          Prob >
chi2 = 0.0000
     Log likelihood = -263.56219
                                                          Pseudo
R2
     = 0.1294
```

log type: smcl

closed on: 2 Dec 2024, 23:16:11