```
*clear data
clear
*import data
use "C:\Users\Gtjohnso\Documents\hrs_hosp_data-1-1.dta"
*start log
log using "C:\Users\Gtjohnso\Documents\Pset4.smcl", replace

*#4 count observations
count

*#5 identify ragender
tab ragender

*#6 #8 identify vigact and percentage that excersize everyday
tab vigact

*#7 binary variable that is 0 if woman 1 otherwise
gen female=ragender==2
*Percentage female
mean female

*#9 make a binary var that assigns 1 if someone works out and 0 if never
gen phys_act=1 if vigact>=1 & vigact<=4
recode phys_act .=0 if vigact==5
*percent who never work out
sum phys_act
g dont = (1 - .3783381) * 100
di dont

*#10 regression model for hospital
reg hospital age female raedyrs phys_act num_hconditions

*close log
log close


{smcl}
{com}{sf}{ul off}{txt}{.-}
      name:  {res}<unnamed>
       {txt}log:  {res}C:\Users\Gtjohnso\Documents\Pset4.smcl
  {txt}log type:  {res}smcl
 {txt}opened on:  {res}27 Feb 2024, 11:48:47
{txt}
{com}.
. *#4 count observations
. count
  {res}20,129
{txt}
{com}.
. *#5 identify ragender
. tab ragender

{txt}ragender: r {c |}
     gender {c |}      Freq.     Percent        Cum.
```

```
{hline 12}{c +}{hline 35}
     1.male {c |}{res}      8,352       41.49       41.49
{txt}   2.female {c |}{res}     11,777       58.51      100.00
{txt}{hline 12}{c +}{hline 35}
      Total {c |}{res}     20,129      100.00
{txt}
{com}.
. *#6 #8 identify vigact and percentage that excersize everyday
. tab vigact

 {txt}r7vgactx:w7 r {c |}
 freq vigorous {c |}
    phys activ {c |}
 {c -(}finer scale{c )-} {c |}      Freq.     Percent        Cum.
{hline 15}{c +}{hline 35}
   1.every day {c |}{res}            385        1.91        1.91
{txt}2.> 1 per week {c |}{res}      4,169       20.73       22.65
{txt}  3.1 per week {c |}{res}      1,590        7.91       30.55
{txt} 4.1-3 per mon {c |}{res}      1,464        7.28       37.83
{txt}       5.never {c |}{res}     12,501       62.17      100.00
{txt}{hline 15}{c +}{hline 35}
        Total {c |}{res}     20,109      100.00
{txt}
{com}.
. *#7 binary variable that is 0 if woman 1 otherwise
. gen female=ragender==2
{txt}
{com}. *Percentage female
. mean female
{res}
{txt}Mean estimation{col 35}Number of obs{col 51}= {res}    20,129

{txt}{hline 13}{c TT}{hline 11}{hline 11}{hline 14}{hline 12}
{col 14}{c |}       Mean{col 26}   Std. Err.{col 38}     [95% Con{col
51}f. Interval]
{hline 13}{c +}{hline 11}{hline 11}{hline 14}{hline 12}
{space 6}female {c |}{col 14}{res}{space 2} .5850763{col 26}{space 2}
.0034729{col 37}{space 5} .5782691{col 51}{space 3} .5918834
{txt}{hline 13}{c BT}{hline 11}{hline 11}{hline 14}{hline 12}

{com}.
. *#9 make a binary var that assigns 1 if someone works out and 0 if
never
. gen phys_act=1 if vigact>=1 & vigact<=4
{txt}(12,521 missing values generated)

{com}. recode phys_act .=0 if vigact==5
{txt}(phys_act: 12501 changes made)

{com}. *percent who never work out
. sum phys_act

{txt}    Variable {c |}        Obs        Mean    Std. Dev.       Min
Max
```

```
{hline 13}{c +}{hline 57}
{space 4}phys_act {c |}{res}     20,109    .3783381    .4849846
0          1
{txt}
{com}. g dont = (1 - .3783381) * 100
{txt}
{com}. di dont
{res}62.166191
{txt}
{com}.
. *#10 regression model for hospital
. reg hospital age female raedyrs phys_act num_hconditions
.0030684
{txt}      Source {c |}       SS           df       MS      Number of obs
={res}    20,021
{txt}{hline 13}{c +}{hline 34}   F(5, 20015)     = {res}   509.39
{txt}       Model {c |} {res} 437.515116         5  87.5030232
{txt}Prob > F        ={res}    0.0000
{txt}    Residual {c |} {res}  3438.1819    20,015   .17178026   {txt}R-
squared       ={res}    0.1129
{txt}{hline 13}{c +}{hline 34}   Adj R-squared   ={res}    0.1127
{txt}       Total {c |} {res} 3875.69702    20,020   .19359126
{txt}Root MSE        =   {res} .41446

{txt}{hline 16}{c TT}{hline 11}{hline 11}{hline 9}{hline 8}{hline
13}{hline 12}
{col 1}       hospital{col 17}{c |}      Coef.{col 29}   Std. Err.{col
41}      t{col 49}   P>|t|{col 57}     [95% Con{col 70}f. Interval]
{hline 16}{c +}{hline 11}{hline 11}{hline 9}{hline 8}{hline 13}{hline 12}
{space 12}age {c |}{col 17}{res}{space 2} .0030684{col 29}{space 2}
.0002738{col 40}{space 1}   11.21{col 49}{space 3}0.000{col 57}{space 4}
.0025318{col 70}{space 3} .0036051
{txt}{space 9}female {c |}{col 17}{res}{space 2}  .072428{col 29}{space
2} .0064074{col 40}{space 1}   11.30{col 49}{space 3}0.000{col 57}{space
4} .0598691{col 70}{space 3}  .084987
{txt}{space 8}raedyrs {c |}{col 17}{res}{space 2}-.0023695{col 29}{space
2} .0009088{col 40}{space 1}   -2.61{col 49}{space 3}0.009{col 57}{space
4}-.0041509{col 70}{space 3}-.0005881
{txt}{space 7}phys_act {c |}{col 17}{res}{space 2}-.0786336{col 29}{space
2} .0064069{col 40}{space 1}  -12.27{col 49}{space 3}0.000{col 57}{space
4}-.0911917{col 70}{space 3}-.0660755
{txt}num_hconditions {c |}{col 17}{res}{space 2} .0995638{col 29}{space
2} .0026238{col 40}{space 1}   37.95{col 49}{space 3}0.000{col 57}{space
4} .0944209{col 70}{space 3} .1047068
{txt}{space 10}_cons {c |}{col 17}{res}{space 2}-.0782701{col 29}{space
2} .0232466{col 40}{space 1}   -3.37{col 49}{space 3}0.001{col 57}{space
4}-.1238353{col 70}{space 3}-.0327048
{txt}{hline 16}{c BT}{hline 11}{hline 11}{hline 9}{hline 8}{hline
13}{hline 12}
{res}{txt}
{com}.
. *close log
. log close
      {txt}name:  {res}<unnamed>
```

```
{txt}log:  {res}C:\Users\Gtjohnso\Documents\Pset4.smcl
{txt}log type:  {res}smcl
{txt}closed on:  {res}27 Feb 2024, 11:48:47
{txt}{.-}
{smcl}
{txt}{sf}{ul off}
```