```
       name:  <unnamed>
        log:  C:\Users\fan\Stata4Econ\matrix\define\basic.smcl
   log type:  smcl
  opened on:  12 Aug 2019, 17:02:32
```

```
1 . log on
  (log already on)

2 .
3 . ///--- Generate matrix with all 0
  >       scalar it_rowcnt = 4

4 .         scalar it_colcnt = 6

5 .         scalar bl_fillval = 0

6 .         matrix mt_bl_estd = J(it_rowcnt, it_colcnt, bl_fillval)

7 .
8 . ///--- Give Matrix Row and Column Names
  >       matrix rownames mt_bl_estd = hhfe vilfe provfe morecontrols

9 .         matrix colnames mt_bl_estd = reg1 reg2 reg3 reg4 reg5 reg6

10.
11. ///--- Assign value to matrix cell single
  >       matrix mt_bl_estd[rownumb(mt_bl_estd, "hhfe"), colnumb(mt_bl_estd, "reg1")] = 1

12.         matrix mt_bl_estd[2,2] = 3

13.
14. ///--- Assign value to 4th row, 3nd to 6th
  >       matrix mt_bl_estd[4,3] = (9,8,7,6)

15.
16. ///--- Assign value to 4th column, 2nd 3rd values
  >       matrix mt_bl_estd[2,4] = (-3\-44.3)

17.
18. ///--- Obtain value from matrix
  >       scalar bl_hhfe_reg1 = mt_bl_estd[rownumb(mt_bl_estd, "hhfe"), colnumb(mt_bl_estd, "reg1")]

19.         di bl_hhfe_reg1
  1

20.         di el(mt_bl_estd, rownumb(mt_bl_estd, "hhfe"), colnumb(mt_bl_estd, "reg1"))
  1

21.
22. ///--- Select a column from matrix
  >       matrix mt_bl_estd_colreg1 = mt_bl_estd[1..., colnumb(mt_bl_estd, "reg1")]

23.         matrix list mt_bl_estd_colreg1

  mt_bl_estd_colreg1[4,1]
                    reg1
          hhfe         1
         vilfe         0
        provfe         0
  morecontrols         0

24.
25. ///--- Get Row and Column Names
  >       global st_colnames : colnames mt_bl_estd

26.         di "${st_colnames}"
  reg1 reg2 reg3 reg4 reg5 reg6

27.         global st_rownames : rownames mt_bl_estd

28.         di "${st_rownames}"
  hhfe vilfe provfe morecontrols

29.
30. ///--- Show Matrix
  >       matrix list mt_bl_estd

  mt_bl_estd[4,6]
                 reg1    reg2    reg3    reg4    reg5    reg6
          hhfe      1       0       0       0       0       0
         vilfe      0       3       0      -3       0       0
        provfe      0       0       0   -44.3       0       0
  morecontrols      0       0       9       8       7       6

31.
32. ///--- End Log and to HTML
  > log close
       name:  <unnamed>
        log:  C:\Users\fan\Stata4Econ\matrix\define\basic.smcl
   log type:  smcl
  closed on:  12 Aug 2019, 17:02:32
```