```
Please Enter Integer >= 3: 2
Error: Please enter a value greater than 3. Program ends here


_____


Please Enter Integer >= 3: 7
ERROR: Not Enough Numbers In File: file1.txt


_____


Please Enter Integer >= 3: 5
_____
_____
The content of the first matrix is:
        1          2          3          4          5
        6          7          8          9         10
       11         12         13         14         15
       16         17         18         19         20
       21         22         23         24         25


-----------------------------------------------------------
-----------------------------------------------------------
The content of the second matrix is:
       10        200         30         40         50
       60         70         80         90        100
      110        120        130        140        150
      160        170        180        190        200
      210         22        230        240        250


-----------------------------------------------------------
-----------------------------------------------------------
The product of the two matrices is:
   2150.0     1490.0     2450.0     2600.0     2750.0
   4900.0     4400.0     5700.0     6100.0     6500.0
   7650.0     7310.0     8950.0     9600.0    10250.0
  10400.0    10220.0    12200.0    13100.0    14000.0
  13150.0    13130.0    15450.0    16600.0    17750.0


-----------------------------------------------------------
-----------------------------------------------------------
The dot-product of the two matrices is:
     10.0      400.0       90.0      160.0      250.0
    360.0      490.0      640.0      810.0     1000.0
   1210.0     1440.0     1690.0     1960.0     2250.0
   2560.0     2890.0     3240.0     3610.0     4000.0
   4410.0      484.0     5290.0     5760.0     6250.0


-----------------------------------------------------------
-----------------------------------------------------------
The result of matrix1 divided by matrix2 is:
```

```
          0.1           0.01          0.1           0.1           0.1
          0.1            0.1          0.1           0.1           0.1
          0.1            0.1          0.1           0.1           0.1
          0.1            0.1          0.1           0.1           0.1
          0.1            1.0          0.1           0.1           0.1


----------------------------------------------------------
----------------------------------------------------------
The transpose of the first matrix is:
            1            6           11           16           21
            2            7           12           17           22
            3            8           13           18           23
            4            9           14           19           24
            5           10           15           20           25


----------------------------------------------------------
----------------------------------------------------------
The transpose of the second matrix is:
           10           60          110          160          210
          200           70          120          170           22
           30           80          130          180          230
           40           90          140          190          240
           50          100          150          200          250


----------------------------------------------------------
----------------------------------------------------------
The product of the transpose of the two matrices is:
       3230.0       4900.0       7650.0      10400.0      11962.0
       3560.0       5300.0       8300.0      11300.0      12914.0
       3890.0       5700.0       8950.0      12200.0      13866.0
       4220.0       6100.0       9600.0      13100.0      14818.0
       4550.0       6500.0      10250.0      14000.0      15770.0


----------------------------------------------------------
----------------------------------------------------------
The dot product of the transpose of the two matrices is:
         10.0        360.0       1210.0       2560.0       4410.0
        400.0        490.0       1440.0       2890.0        484.0
         90.0        640.0       1690.0       3240.0       5290.0
        160.0        810.0       1960.0       3610.0       5760.0
        250.0       1000.0       2250.0       4000.0       6250.0


----------------------------------------------------------
----------------------------------------------------------
The result of matrix1 divided by matrix2 is:
          0.1          0.1          0.1           0.1           0.1
         0.01          0.1          0.1           0.1           1.0
          0.1          0.1          0.1           0.1           0.1
          0.1          0.1          0.1           0.1           0.1
          0.1          0.1          0.1           0.1           0.1
```

```
----------------------End Program---------------------

-------------------SECOND RUN---------------------------
_____
_____
The content of the first matrix is:
        1           2           3           4
        5           6           7           8
        9          10          11          12
       13          14          15          16


------------------------------------------------------
------------------------------------------------------
The content of the second matrix is:
       10         200          30          40
       50          60          70          80
       90         100         110         120
      130         140         150         160


------------------------------------------------------
------------------------------------------------------
The product of the two matrices is:
    900.0      1180.0      1100.0      1200.0
   2020.0      3180.0      2540.0      2800.0
   3140.0      5180.0      3980.0      4400.0
   4260.0      7180.0      5420.0      6000.0


------------------------------------------------------
------------------------------------------------------
The dot-product of the two matrices is:
     10.0       400.0        90.0       160.0
    250.0       360.0       490.0       640.0
    810.0      1000.0      1210.0      1440.0
   1690.0      1960.0      2250.0      2560.0


------------------------------------------------------
------------------------------------------------------
The result of matrix1 divided by matrix2 is:
      0.1        0.01         0.1         0.1
      0.1         0.1         0.1         0.1
      0.1         0.1         0.1         0.1
      0.1         0.1         0.1         0.1


------------------------------------------------------
------------------------------------------------------
The transpose of the first matrix is:
        1           5           9          13
        2           6          10          14
        3           7          11          15
```

```
         4              8             12            16


_____
_____
The transpose of the second matrix is:
      10             50            90           130
     200             60           100           140
      30             70           110           150
      40             80           120           160


_____
_____
The product of the transpose of the two matrices is:
   1800.0       2020.0       3140.0       4260.0
   2080.0       2280.0       3560.0       4840.0
   2360.0       2540.0       3980.0       5420.0
   2640.0       2800.0       4400.0       6000.0


_____
_____
The dot product of the transpose of the two matrices is:
    10.0        250.0        810.0       1690.0
   400.0        360.0       1000.0       1960.0
    90.0        490.0       1210.0       2250.0
   160.0        640.0       1440.0       2560.0


_____
_____
The result of matrix1 divided by matrix2 is:
     0.1          0.1          0.1          0.1
     0.01         0.1          0.1          0.1
     0.1          0.1          0.1          0.1
     0.1          0.1          0.1          0.1

---------------------End Program---------------------
```