```c
1 #include<stdio.h>
2 int main()
3 {
4 int ResultantMatrix[4][4],i,j,k;
5
6 int matrix1[4][4]={{10,23,22,45},
7 {23,43,21,13},
8 {12,23,21,12},
9 {12,23,21,21}};
10
11 int matrix2[4][4]={{12,23,34,23},
12 {21,23,32,12},
13 {12,13,23,21},
14 {12,12,21,21}};
15
16 while(1)
17 {
18 for(i=0;i<4;i++)
19 {
20 for(j=0;j<4;j++)
21 {
22 ResultantMatrix[i][j]=0;
23 for(k=0;k<4;k++)
24 ResultantMatrix[i][j]+=matrix1[i][k]*matrix2[k][j];
25 printf("result=%d",ResultantMatrix[i][j]);
26 }
27 }
28 }
29 }
```

```
esult=1407result=1585result=2527result=1913result=1587result=1947result=2914resu
lt=1759result=1023result=1222result=1879result=1245result=1131result=1330result=
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=1585result=2527result=1913result=1587result=1947result=2914result=1759result=16
23result=1222result=1879result^Z
[1]+  Stopped                 ./a.out
```

```
top - 07:25:18 up  1:34,  1 user,  load average: 0.25, 0.23, 0.14
Tasks: 191 total,   1 running, 189 sleeping,   1 stopped,   0 zombie
%Cpu(s):  1.0 us,  0.3 sy,  0.0 ni, 98.3 id,  0.3 wa,  0.0 hi,  0.0 si,  0.0 st
MiB Mem :   2910.7 total,    324.2 free,    914.5 used,   1672.0 buff/cache
MiB Swap:   4310.0 total,   4310.0 free,      0.0 used.   1793.6 avail Mem

    PID USER      PR  NI    VIRT    RES    SHR S  %CPU  %MEM     TIME+ COMMAND
   1525 akshay    20   0 4144968 465160 137344 S   0.7  15.6   5:29.85 gnome-s+
   1875 akshay    20   0  162220   2584   2192 S   0.7   0.1   0:19.20 VBoxCli+
    349 root     -51   0       0      0      0 S   0.3   0.0   0:00.63 irq/18-+
   3727 akshay    20   0   21732   3900   3304 R   0.3   0.1   0:00.09 top
      1 root      20   0  166712  11852   8260 S   0.0   0.4   0:02.33 systemd
      2 root      20   0       0      0      0 S   0.0   0.0   0:00.00 kthreadd
      3 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 rcu_gp
      4 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 rcu_par+
      5 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 netns
      7 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 kworker+
     10 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 mm_perc+
     11 root      20   0       0      0      0 S   0.0   0.0   0:00.00 rcu_tas+
     12 root      20   0       0      0      0 S   0.0   0.0   0:00.00 rcu_tas+
     13 root      20   0       0      0      0 S   0.0   0.0   0:00.49 ksoftir+
     14 root      20   0       0      0      0 I   0.0   0.0   0:02.20 rcu_sch+
     15 root      rt   0       0      0      0 S   0.0   0.0   0:00.09 migrati+
     16 root     -51   0       0      0      0 S   0.0   0.0   0:00.00 idle_in+
```