

## C-59 > Two Dinensional Acrony

## 20 Avoiay Priogram 4

\* Brogram to add two matrin in C:

void main()

int a[100][100], b[100][100], c[100] 100], i,j;

print (" Enter number of news: In");

scart (".1.d", &m);

print (" Enter number of columns: In");

scart (".1.d", &n);

for(i=0; i&m; i++)

f

for(j=0; j\n;j++)

print ("Enter value of a [A][]]:"i,j);
scarf (" 1.d, b a [i][j]);

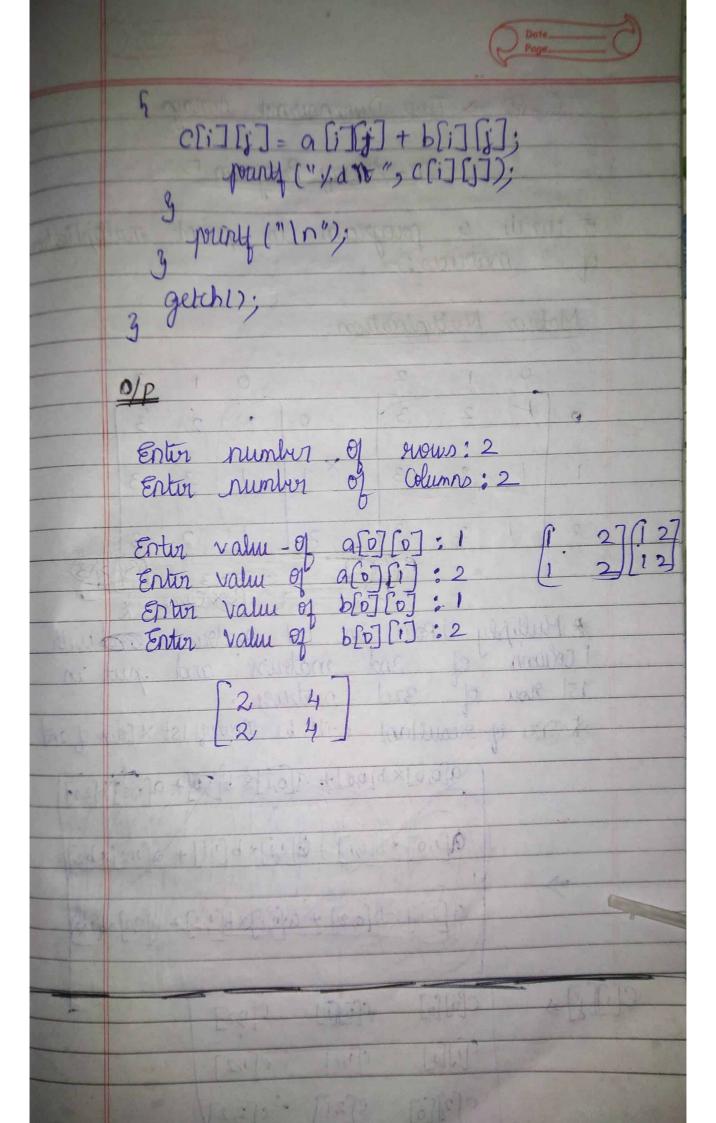
for(i=0;iLm,i+t)

for(j=0; j~n; j++)

print (" Enter value of b[/d][/d]:",i,j)
2 scary (" /.d", & b[i][j]);

for(i=0;i/m;i+t)

for(j=0;j/n,j++)



## CODE 1:

```
1
      #include <stdio.h>
 2
    #include <stdlib.h>
    #define N 100
 3
    /** 4 - 2D ARRAY PROGRAM **/
 5
    /** PRINT PROGRAM TO ADD TWO MATRICES IN C **/
     /** RULE: Both matrix should have same rows and columns **/
 6
 7
     int main()
 8 □{
 9
        int a[N][N],b[N][N],c[N][N],i,j,m,n;
10
        printf("Enter number of Rows:");
        scanf ("%d", &m);
11
12
        printf("Enter number of Columns:");
13
        scanf ("%d", &n);
14
        for (i=0; i<m; i++)</pre>
15
16
         for (j=0; j<n; j++)
17
18
          printf("Enter value of a[%d][%d]:",i,j);
19
          scanf("%d", &a[i][j]);
20
21
22
        for (i=0; i < m; i++)</pre>
23
24
         for (j=0; j<n; j++)
25
          printf("Enter value of b[%d][%d]:",i,j);
26
          scanf("%d", &b[i][j]);
27
28
29
30
        printf("\nFirst matrix:\n");
31
        for(i=0;i<m;i++)
32
33
         for (j=0; j<n; j++)</pre>
34
35
          printf("%d\t",a[i][j]);
36
37
        printf("\n");
38
```

```
39
        printf("\nSecond matrix:\n");
40
        for (i=0; i<m; i++)
41
42
         for (j=0; j<n; j++)
43
44
          printf("%d\t",b[i][j]);
45
46
         printf("\n");
47
48
        printf("\nSum matrix:\n");
49
        for (i=0; i<m; i++)</pre>
50
51
         for (j=0; j<n; j++)</pre>
52
53
          c[i][j]=a[i][j]+b[i][j];
54
          printf("%d\t",c[i][j]);
55
56
         printf("\n");
57
58
      getch();
59
```

## ■ "D:\1. C NOTEBOOK\C LANGUAGE\C PROGRA

```
Enter number of Rows:2
Enter number of Columns:2
Enter value of a[0][0]:1
Enter value of a[0][1]:2
Enter value of a[1][0]:3
Enter value of a[1][1]:4
Enter value of b[0][0]:1
Enter value of b[0][1]:2
Enter value of b[1][0]:3
Enter value of b[1][1]:4
First matrix:
        2
        4
Second matrix:
        2
        4
Sum matrix:
        4
        8
```