

Lab : 6

Write a C program to add two matrices.

Program

```
1  #include<stdio.h>
2  main ()
3  {
4      int i, j , rows, column, a[10][10], b[10][10];
5      int arr[10][10];
6      printf("Enter the rows and column : \n");
7      scanf("%d%d", &i, &j);
8      printf("Enter First Element : \n");
9      for (rows = 0; rows < i; rows++){
10         for (column = 0; column < j; column++){
11             scanf("%d", &a[rows][column]);
12         }
13     }
14     printf("Enter Second element : \n");
15     for (rows = 0; rows < i; rows++) {
16         for (column = 0; column < j; column++) {
17             scanf("%d", &b[rows][column]);
18         }
19     }
20     for (rows = 0 ; rows < i; rows++) {
21         for (column = 0; column < j; column++) {
22             arr[rows][column] = a[rows][column] + b[rows][column];
23         }
24     }
25     printf("The sum of two a and b = a + b \n");
26     for (rows = 0; rows < i; rows++) {
27         for (column = 0; column < j; column++) {
28             printf("%d \t", arr[rows][column]);
29         }
30     }
31 }
32 }
```

Output

```
Enter the rows and column :
2
3
Enter First Element :
10
11
12
13
14
15
Enter Second element :
10
11
12
13
14
15
The sum of two a and b = a + b
20      22      24      26      28      30
-----
Process exited after 18.36 seconds with return value 2
Press any key to continue . . .
```