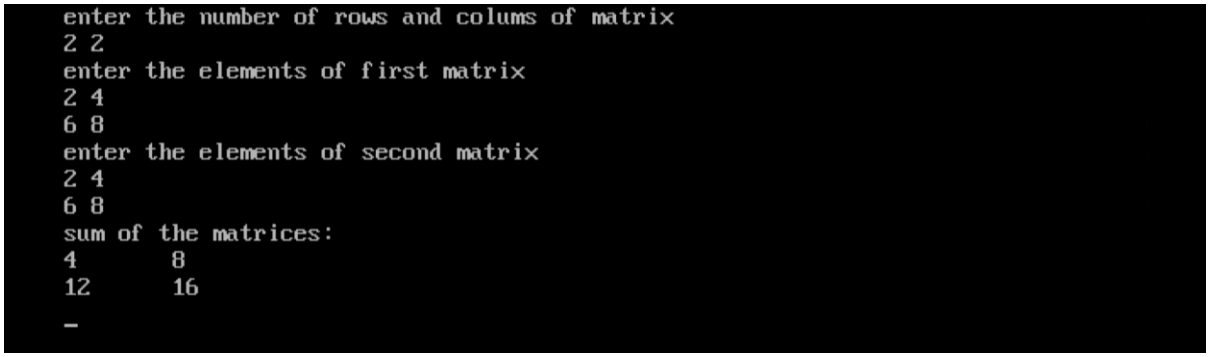
PROGRAM 1: Develop a program to perform addition of two Matrices.

Input:

```
#include <stdio.h>
#include <conio.h>
int main()
{
 int m, n, c, d, first[10][10], second[10][10], sum[10][10];
 clrscr();
 printf("enter the number of rows and colums of matrix\n");
 scanf("%d %d", &m, &n);
 printf("enter the elements of first matrix\n");
 for(c=0; c<m; c++)
  for(d=0; d<n; d++)
   scanf("%d", &first[c][d]);
 printf("enter the elements of second matrix\n");
 for(c=0; c<m; c++)
  for(d=0; d<n; d++)
   scanf("%d", &second[c][d]);
 printf("sum of the matrices:\n");
 for(c=0; c<m; c++)
 {
  for(d=0; d<n; d++)
  {
   sum[c][d]=first[c][d]+second[c][d];
   printf("%d\t", sum[c][d]);
  }
  printf("\n");
 }
 getch();
```

```
return (0);
}
```

Output:



PROGRAM 2: Demonstrate reading a two-dimensional array of marks which stores marks of 4 students in 3 subjects and display the highest marks in each subject.

Input:

```
#include <stdio.h>
#include <conio.h>
int main()
{
 int marks[4][3], i, j, max_marks;
 clrscr();
 for(i=0; i<4;i++)
 {
  printf("\nenter the marks obtained by student %d", i);
  for(j=0; j<3; j++)
  {
   printf("\nmarks[%d][%d]= ", i, j);
   scanf("%d", &marks[i][j]);
  }
 }
```

```
for(j=0;j<3;j++)
{
 max_marks=marks[0][j];
 for(i=1; i<4; i++)
 {
  if(marks[i][j]>max_marks)
  max_marks=marks[i][j];
 }
 printf("\nthe highest marks obtained in the subject %d = %d", j, max_marks);
}
getch();
return(0);
}
```

Output: