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

```
#include<stdio.h>
#define ROW 2
#define COL 3

int main()
{
   int i, j, arr1[ROW][COL], arr2[ROW][COL];

   printf("Enter first matrix: \n");

   for(i = 0; i < ROW; i++)
   {
      for(j = 0; j < COL; j++)
      {
         scanf("%d", &arr1[i][j]);
      }
   }
   printf("\nEnter second matrix: \n");
   for(i = 0; i < ROW; i++)
   {
      for(j = 0; j < COL; j++)
      {
         scanf("%d", &arr2[i][j]);
      }
   }
   printf("\narr1 + arr2 = \n");
   for(i = 0; i < ROW; i++)
   {
      for(j = 0; j < COL; j++)
      {
         printf("%5d ", arr1[i][j] + arr2[i][j]);
      }
      printf("\n");
   }
   return 0;
}
```

```
Enter first matrix:
10 20 30
40 50 60

Enter second matrix:
100 110 120
130 140 150

arr1 + arr2 =
  110   130   150
  170   190   210
```

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.

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

                        scanf("%d", &marks[i][j]);
                }
        }

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

        getch();
        return 0;
}
```

```
Enter the marks obtained by student 0
10 20 30
Enter the marks obtained by student 1
20 30 40
Enter the marks obtained by student 2
30 40 50
Enter the marks obtained by student 3
40 50 60

 The highest marks obtained in the subject 0 = 40
 The highest marks obtained in the subject 1 = 50
 The highest marks obtained in the subject 2 = 60
```