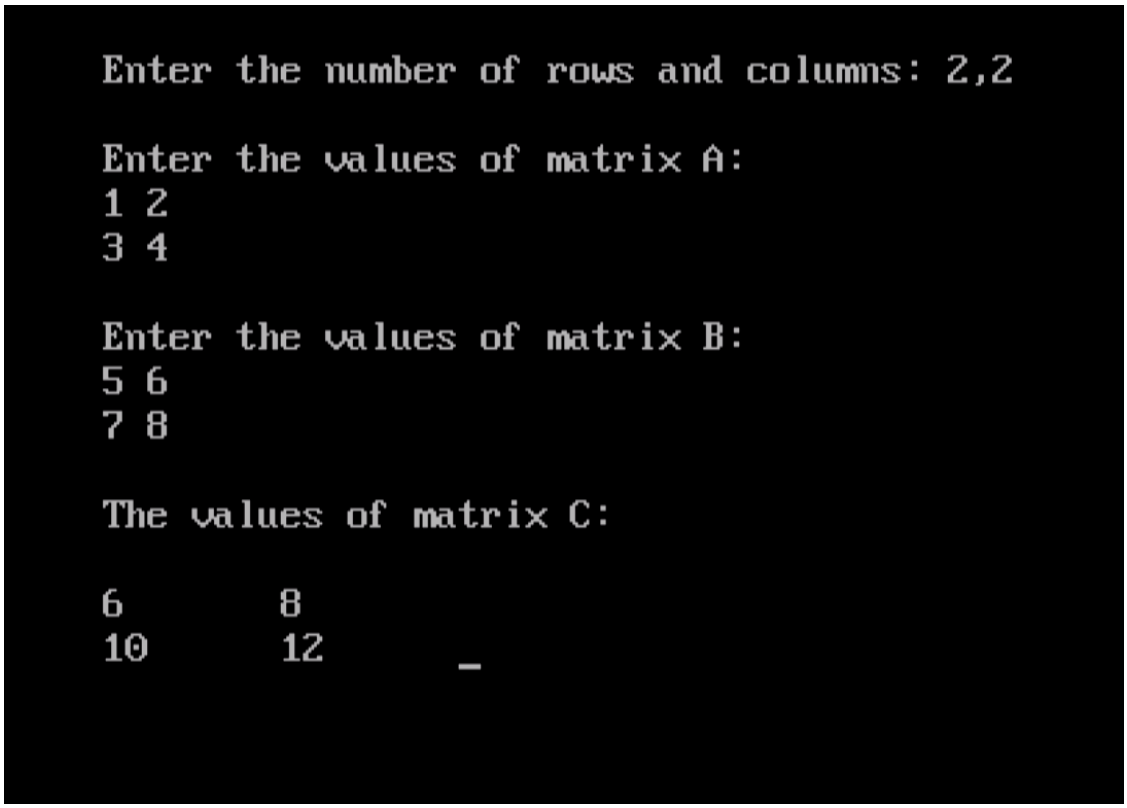
1. **Develop a program to perform addition of two matrices**

```
#include<stdio.h>
#include<conio.h>
void main()
{
int a[10][10],b[10][10],d[10][10],i,j,r,c;
clrscr();
printf("\nEnter the number of rows and columns: ");
scanf("%d,%d",&r,&c);
printf("\nEnter the values of matrix A:\n");
for(i=0;i<r;i++)
for(j=0;j<c;j++)
scanf("%d",&a[i][j]);
printf("\nEnter the values of matrix B:\n");
for(i=0;i<r;i++)
for(j=0;j<c;j++)
scanf("%d",&b[i][j]);
for(i=0;i<r;i++)
for(j=0;j<c;j++)
d[i][j]=a[i][j]+b[i][j];
printf("\nThe values of matrix C:\n");
for(i=0;i<r;i++)
{
printf("\n");
for(j=0;j<c;j++)
printf("%d\t",d[i][j]);
```

```
}
getch();


}
```

OUTPUTS



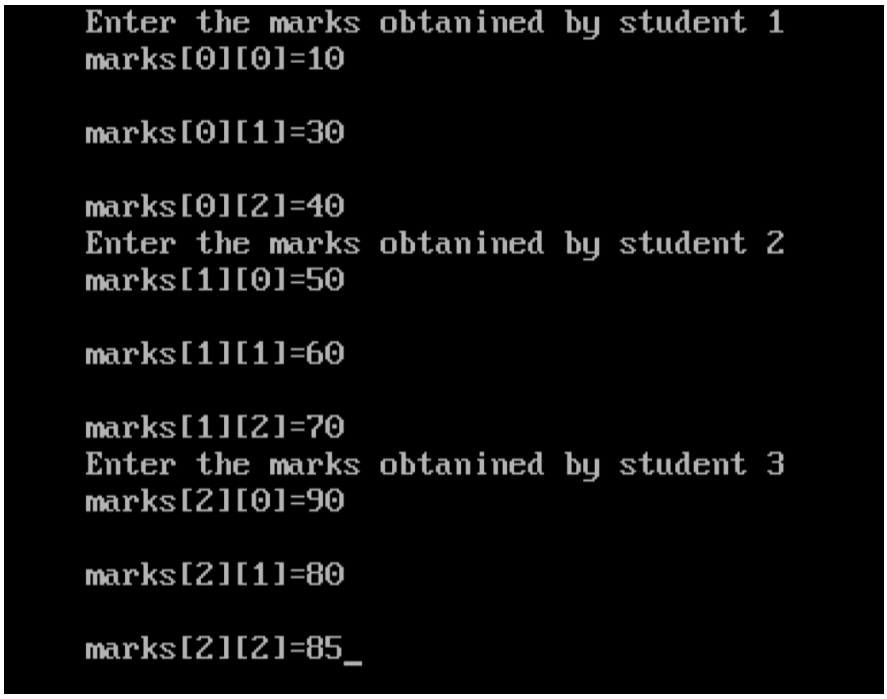
2. **Demonstrate reading a two-dimensional array of marks which stores marks of 4 students in 3 subjects and display the highest marks in each subject.**

```
#include<stdio.h>
#include<conio.h>
void main()
{
int marks[4][3],i,j,max_marks;
clrscr();
for(i=0;i<4;i++)
{
printf("Enter the marks obtanined by student %d",i+1);
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 obtanined in the subject
%d=%d\n",j+1,max_marks);
}

    getch();
}
```

OUTPUTS



```
Enter the marks obtanined by student 4
marks[3][0]=65

marks[3][1]=32

marks[3][2]=25

The highest marks obtanined in the subject 1=90

The highest marks obtanined in the subject 2=80

The highest marks obtanined in the subject 3=85
```