

## Assignment:19

**Q.1 Accept number of rows and columns and print \* pattern**

**Ans.**

```
#include<stdio.h>

void Display(int iRows,int iCols)
{
    int iR=0,iC=0;
    for(iR=1;iR<=iRows;iR++)
    {
        for(iC=1;iC<=iCols;iC++)
        {
            printf("*\t");
        }
        printf("\n");
    }
}

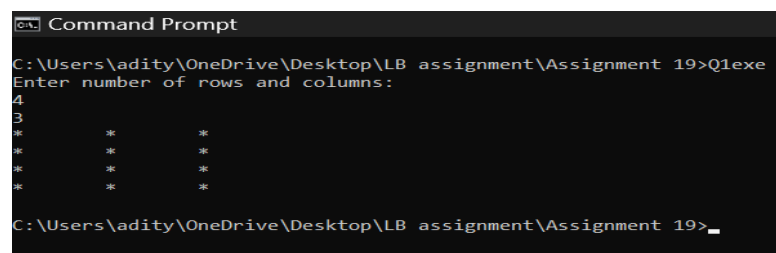
int main()
{
    int iRows=0,iCols=0;

    printf("Enter number of rows and columns:\n");
    scanf("%d %d",&iRows,&iCols);

    Display(iRows,iCols);

    return 0;
}
```

**OUTPUT:**



```
Command Prompt
C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 19>Q1.exe
Enter number of rows and columns:
4
3
*      *      *
*      *      *
*      *      *
*      *      *
C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 19>_
```

**Q.2 Accept number of rows and columns and print '1 2 3' pattern.**

**Ans.**

```
#include<stdio.h>

void Display(int iRows,int iCols)
{
    int iR=0,iC=0;
    for(iR=1;iR<=iRows;iR++)
    {
        for(iC=1;iC<=iCols;iC++)
        {
            printf("%d\t",iC);
        }
        printf("\n");
    }
}

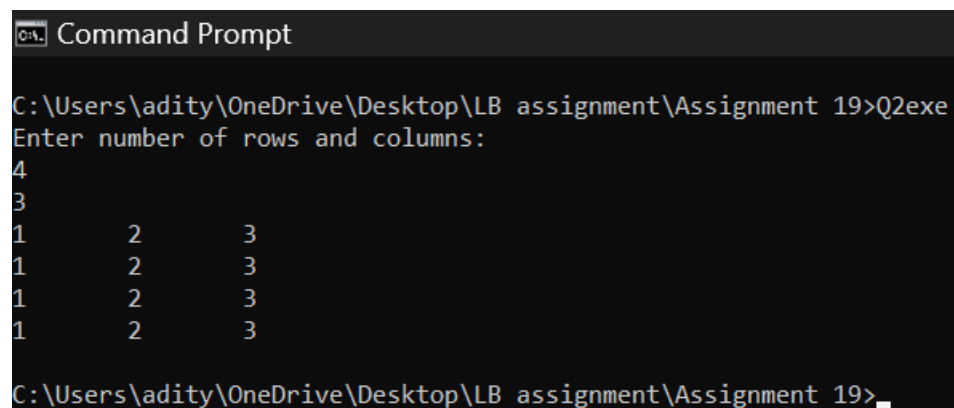
int main()
{
    int iRows=0,iCols=0;

    printf("Enter number of rows and columns:\n");
    scanf("%d %d",&iRows,&iCols);

    Display(iRows,iCols);

    return 0;
}
```

**OUTPUT:**



```
Command Prompt
C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 19>Q2exe
Enter number of rows and columns:
4
3
1      2      3
1      2      3
1      2      3
1      2      3
C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 19>_
```

**Q.3 Accept number of rows and columns and display 'n - 1' pattern.**

**Ans.**

```
#include<stdio.h>

void Display(int iRows,int iCols)
{
    int iR=0,iC=0;

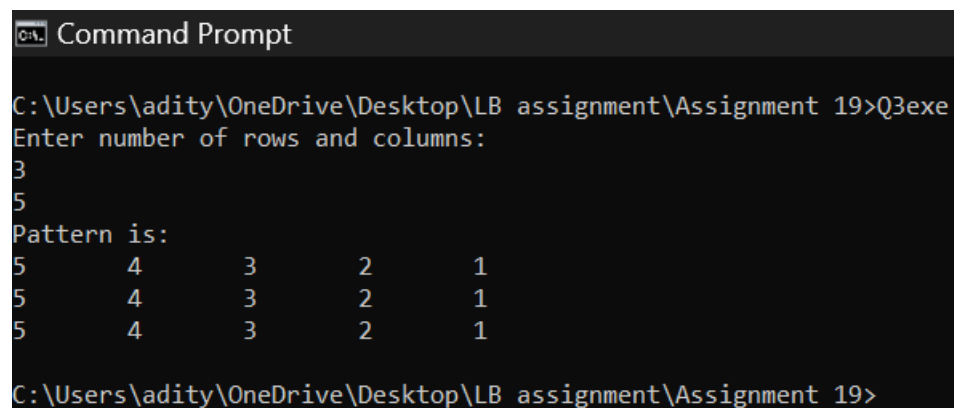
    printf("Pattern is:\n");
    for(iR=1;iR<=iRows;iR++)
    {
        for(iC=iCols;iC>0;iC--)
        {
            printf("%d\t",iC);
        }
        printf("\n");
    }
}

int main()
{
    int iRows=0,iCols=0;

    printf("Enter number of rows and columns:\n");
    scanf("%d %d",&iRows,&iCols);

    Display(iRows,iCols);
}
```

**OUTPUT:**



```
Command Prompt
C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 19>Q3exe
Enter number of rows and columns:
3
5
Pattern is:
5      4      3      2      1
5      4      3      2      1
5      4      3      2      1
C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 19>
```

**Q.4 Accept number of rows and columns from user and print ‘ \* # ’ pattern**

**Ans.**

```
#include<stdio.h>

void Display(int iRows,int iCols)
{
    int iR=0,iC=0;
    for(iR=1;iR<=iRows;iR++)
    {
        for(iC=1;iC<=iCols;iC++)
        {
            if(iC%2!=0)
            {
                printf("*\t");
            }
            else
            {
                printf("#\t");
            }
        }
        printf("\n");
    }
}

int main()
{
    int iRows=0,iCols=0;

    printf("Enter number of rows and columns:\n");
    scanf("%d %d",&iRows,&iCols);

    Display(iRows,iCols);

    return 0;
}
```

## OUTPUT:

```
Command Prompt

C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 19>Q4.exe
Enter number of rows and columns:
3
4
*      #      *      #
*      #      *      #
*      #      *      #

C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 19>
```

**Q.5 Accept number of rows and columns and print 'r-r-r-r-r'(row no.)**

**Ans.**

```
#include<stdio.h>

void Display(int iRows,int iCols)
{
    int iR=0,iC=0;
    for(iR=1;iR<=iRows;iR++)
    {
        for(iC=1;iC<=iCols;iC++)
        {
            printf("%d\t",iR);
        }
        printf("\n");
    }
}

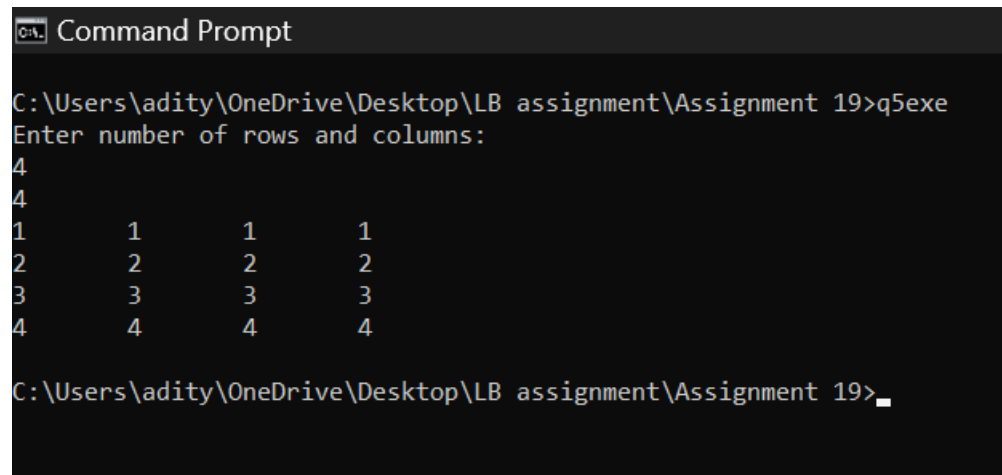
int main()
{
    int iRows=0,iCols=0;

    printf("Enter number of rows and columns:\n");
    scanf("%d %d",&iRows,&iCols);

    Display(iRows,iCols);
}
```

```
    return 0;  
}
```

## OUTPUT:



```
Command Prompt  
C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 19>q5exe  
Enter number of rows and columns:  
4  
4  
1      1      1      1  
2      2      2      2  
3      3      3      3  
4      4      4      4  
  
C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 19>
```