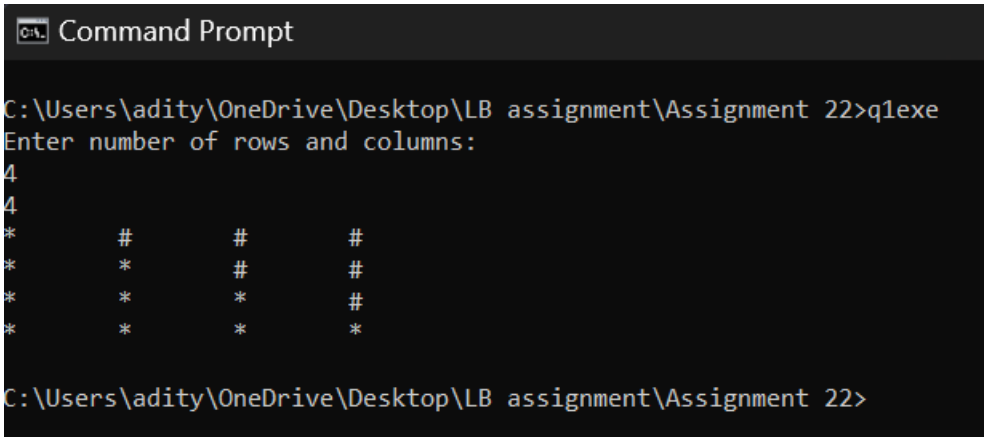
Assignment:22

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

Ans.

```c
#include<stdio.h>

void Display(int iRows,int iCols)
{
    int iR=0,iC=0,iNo=0;
    for(iR=1;iR<=iRows;iR++)
    {
        for(iC=1;iC<=iCols;iC++)
        {
            for(iNo=iR;iNo<=iR;iNo++)
            {
                if(iC<=iR)
                {
                    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:



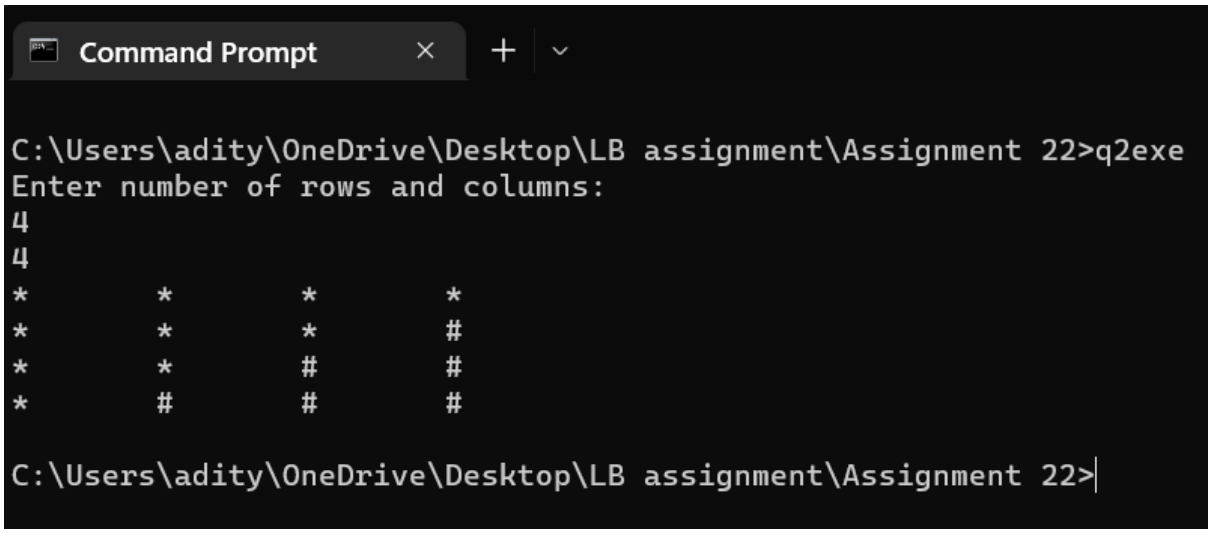
Q.2 Accept number of rows and columns and print pattern.

Ans.

```c
#include<stdio.h>

void Display(int iRows,int iCols)
{
    for(int i = iRows ; i >= 1 ; i--)
    {
        for(int j = 1 ; j <= iCols ; j++)
        {
            if(i >= j)
            {
                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:



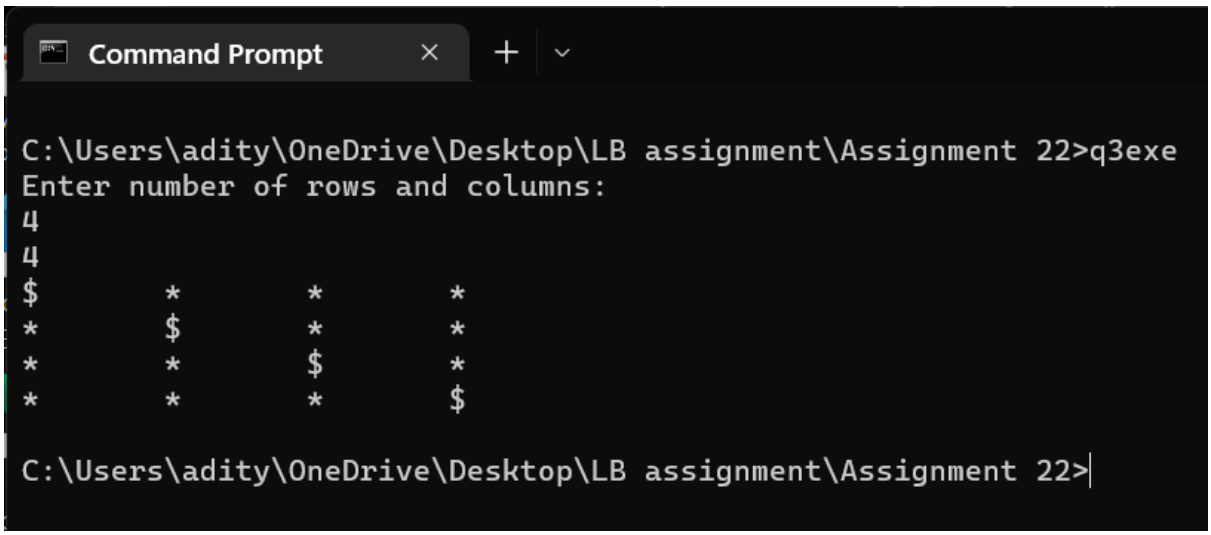
Q.3 Accept number of rows and columns and print pattern.

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++)
    {
        if(iC==iR)
        {
            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);

    if(iRows!=iCols)
    {
        printf("Can not print Diagonal pattern...\n");
        return 0;
    }

    Display(iRows,iCols);

    return 0;
}
```

OUTPUT:

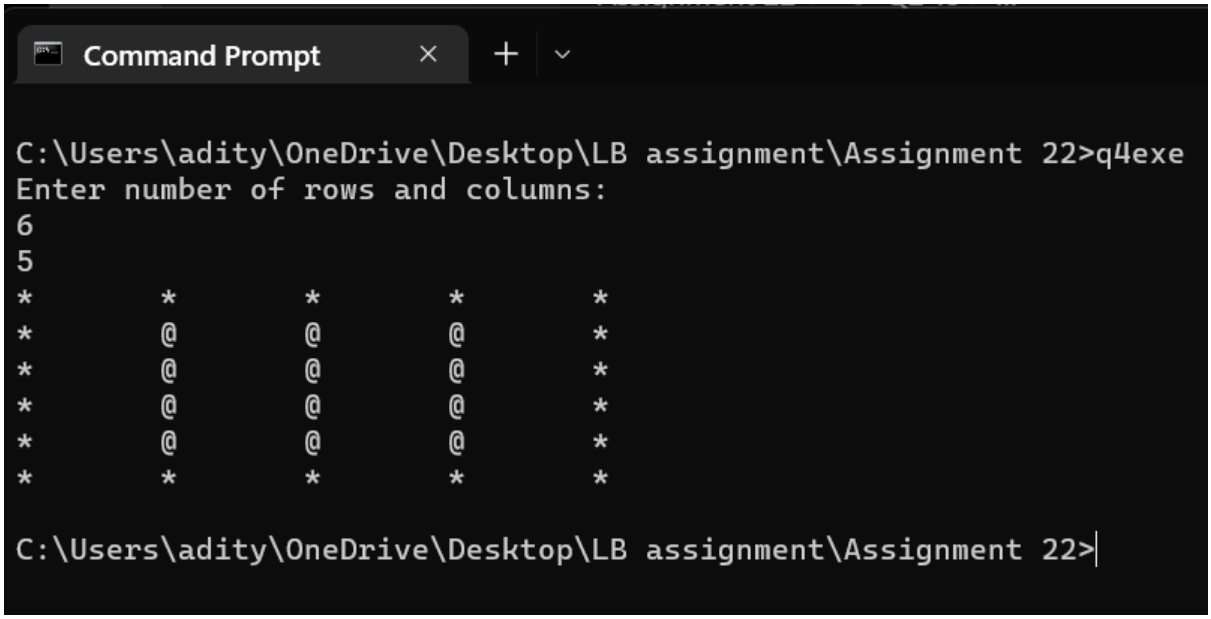


Q.4 Accept number of rows and columns and print pattern.

Ans.

```c
#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==1||iC==iCols||iR==1||iR==iRows)
        {
            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:



Q.5 Accept number of rows and columns and print pattern.

Ans.

```c
#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==1||iC==iCols||iR==1||iR==iRows)
        {
            printf("%d\t",iC);
        }
        else{
            printf("@\t");
        }
    }
    printf("\n");
}
}
```

```c
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: