

## Assignment:9

Q.1 Write a program and print and number of \* and # in one line simultaneously.

**Ans.**

```
#include<stdio.h>

void Display(int iVal)
{
    int iCnt=0;

    if(iVal<0)
    {
        iVal=-iVal;
    }

    for(iCnt=iVal;iCnt>0;iCnt--)
    {
        printf("*\t");
    }

    for(iCnt=1;iCnt<=iVal;iCnt++)
    {
        printf("#\t");
    }
}

int main()
{
    int iNo=0;

    printf("Enter Number of times you want to print * & # :\t");
    scanf("%d",&iNo);

    Display(iNo);

    return 0;
}
```

## OUTPUT:

```
Command Prompt
C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 9>Q1exe
Enter Number of times you want to print * & # : 5
*      *      *      *      *      #      #      #      #
C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 9>Q1exe
Enter Number of times you want to print * & # : 6
*      *      *      *      *      *      #      #      #      #      #      #
C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 9>Q1exe
Enter Number of times you want to print * & # : -5
*      *      *      *      *      #      #      #      #      #
C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 9>Q1exe
Enter Number of times you want to print * & # : 2
*      *      #      #
C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 9>_
```

**Q.2 Write a program to convert value of USD into Indian rupee**

**Ans.**

```
#include<stdio.h>

int ToIndianRupee(int iVal)
{
    int iMul=iVal*70;

    return iMul;
}

int main()
{
    int iNo=0;

    printf("Enter how Many USD($) you have:\t");
    scanf("%d",&iNo);

    int iRet= ToIndianRupee(iNo);

    printf("%d USD($) is %d in indian Rupee.\n\n",iNo,iRet);

    return 0;
}
```

## OUTPUT:

```
Command Prompt

C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 9>gcc Q2_.c -o Q2exe

C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 9>q2exe
Enter how Many USD($) you have: 10
10 USD($) is 700 in indian Rupee.

C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 9>q2exe
Enter how Many USD($) you have: 3
3 USD($) is 210 in indian Rupee.

C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 9>q2exe
Enter how Many USD($) you have: 1200
1200 USD($) is 84000 in indian Rupee.

C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 9>
```

**Q.3 Write a program to find even factors of given number.**

**Ans.**

```
#include<stdio.h>

int EvenFactorial(int iVal)
{
    int iCnt=0;
    int iFact=1;

    if(iVal<0)
    {
        iVal=-iVal;
    }

    for(iCnt=iVal;iCnt>0;iCnt--)
    {
        if(iCnt%2==0)
        {
            iFact*=iCnt;
        }
    }
    return iFact;
}
```

```

int main()
{
    int iNo=0;

    printf("Enter a digit that you want factorial with Even numbers only:\t");
    scanf("%d",&iNo);

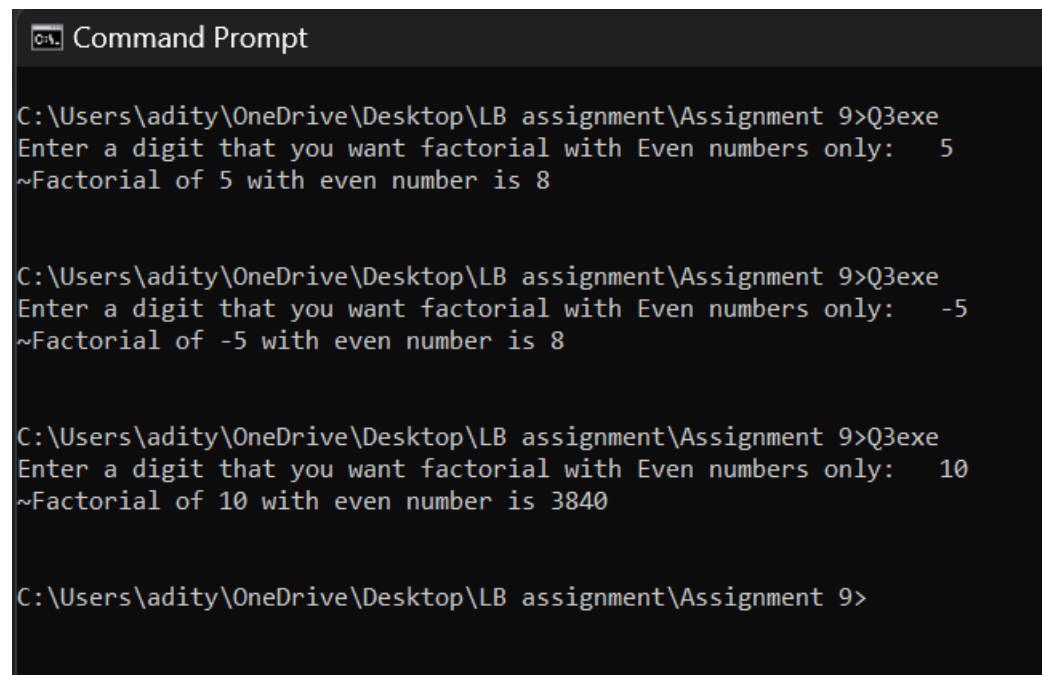
    int iRet=EvenFactorial(iNo);

    printf("~Factorial of %d with even number is %d\n\n",iNo,iRet);

    return 0;
}

```

## OUTPUT:



```

C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 9>Q3.exe
Enter a digit that you want factorial with Even numbers only: 5
~Factorial of 5 with even number is 8

C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 9>Q3.exe
Enter a digit that you want factorial with Even numbers only: -5
~Factorial of -5 with even number is 8

C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 9>Q3.exe
Enter a digit that you want factorial with Even numbers only: 10
~Factorial of 10 with even number is 3840

C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 9>

```

**Q.4 Write a program to print factorial of number using only odd numbers.**

**Ans.**

```
#include<stdio.h>

int OddFactorial(int iVal)
{
    int iCnt=0;
    int iFact=1;

    if(iVal<0)
    {
        iVal=-iVal;
    }

    for(iCnt=iVal;iCnt>0;iCnt--)
    {
        if(iCnt%2!=0)
        {
            iFact*=iCnt;
        }
    }
    return iFact;
}

int main()
{
    int iNo=0;

    printf("Enter a digit that you want factorial with odd numbers only:\t");
    scanf("%d",&iNo);

    int iRet=OddFactorial(iNo);

    printf("~Factorial of %d with odd number is %d\n\n",iNo,iRet);

    return 0;
}
```

## OUTPUT:

```
Command Prompt

C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 9>Q4exe
Enter a digit that you want factorial with odd numbers only: 5
~Factorial of 5 with odd number is 15

C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 9>Q4exe
Enter a digit that you want factorial with odd numbers only: -5
~Factorial of -5 with odd number is 15

C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 9>Q4exe
Enter a digit that you want factorial with odd numbers only: 10
~Factorial of 10 with odd number is 945

C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 9>_
```

**Q.5 Write a program which return difference between odd and even number factorial of given number.**

**Ans.**

```
#include<stdio.h>

int DiffFactorial(int iVal)
{
    int iCnt=0;
    int iE_Fact=1,iDiff=0;
    int iO_Fact=1;

    if(iVal<0)
    {
        iVal=-iVal;
    }

    for(iCnt=iVal;iCnt>0;iCnt--)
    {
        if(iCnt%2==0)
        {
            iE_Fact*=iCnt;
        }
    }
}
```

```

        if(iCnt%2!=0)
        {
            iO_Fact*=iCnt;
        }
    }

    iDiff=(iE_Fact)-(iO_Fact);

    if(iDiff<0)
    {
        iDiff=-iDiff;
    }

    return iDiff;
}

int main()
{
    int iNo=0;

    printf("Enter a digit that you want Difference between odd and even
numbered factorial:\t");
    scanf("%d",&iNo);

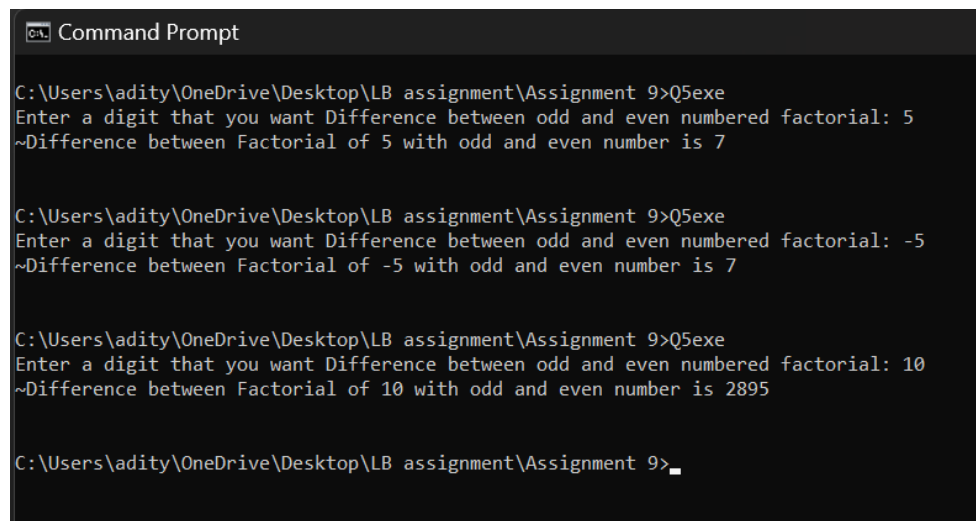
    int iRet=DiffFactorial(iNo);

    printf("~Difference between Factorial of %d with odd and even number is
%d\n\n",iNo,iRet);

    return 0;
}

```

## OUTPUT:



```

C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 9>Q5exe
Enter a digit that you want Difference between odd and even numbered factorial: 5
~Difference between Factorial of 5 with odd and even number is 7

C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 9>Q5exe
Enter a digit that you want Difference between odd and even numbered factorial: -5
~Difference between Factorial of -5 with odd and even number is 7

C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 9>Q5exe
Enter a digit that you want Difference between odd and even numbered factorial: 10
~Difference between Factorial of 10 with odd and even number is 2895

C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 9>_

```