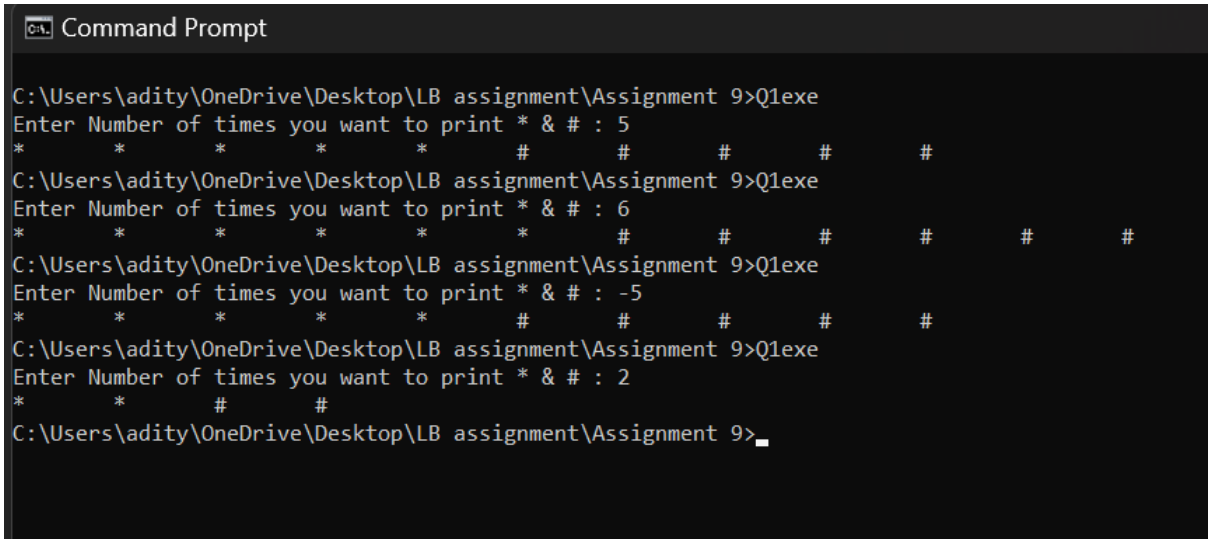
Assignment:9

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

Ans.

```c
#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:

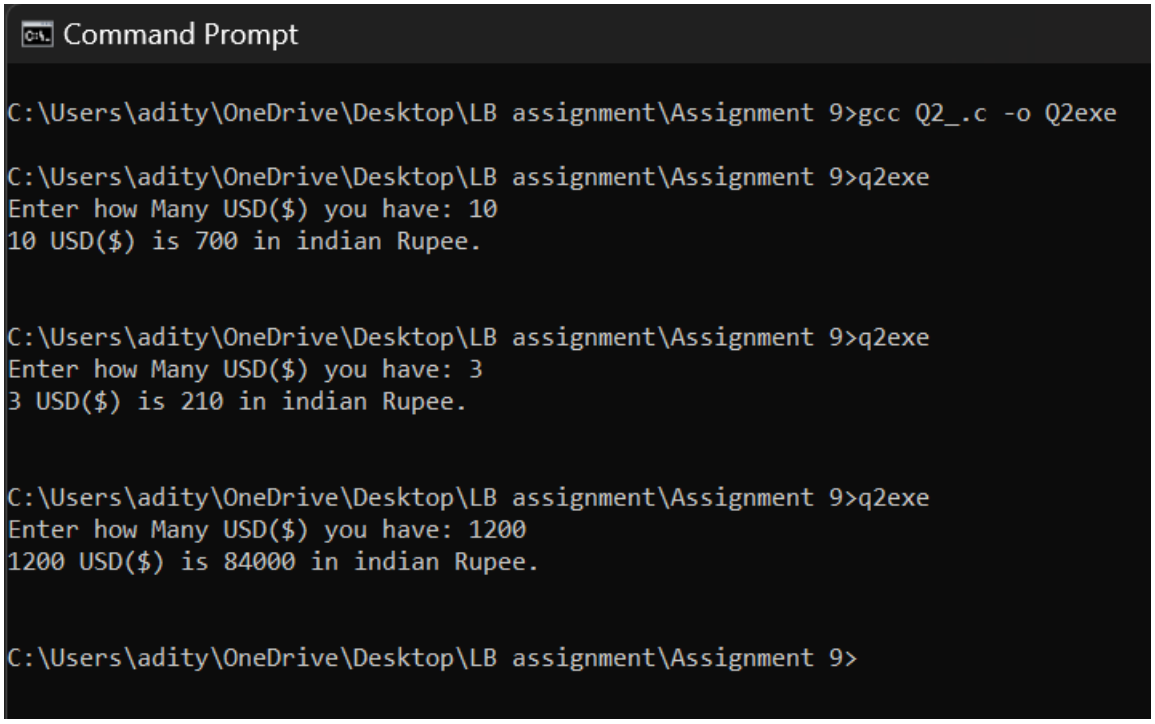


Q.2 Write a program to convert value of USD into Indian rupee

Ans.

```c
#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:



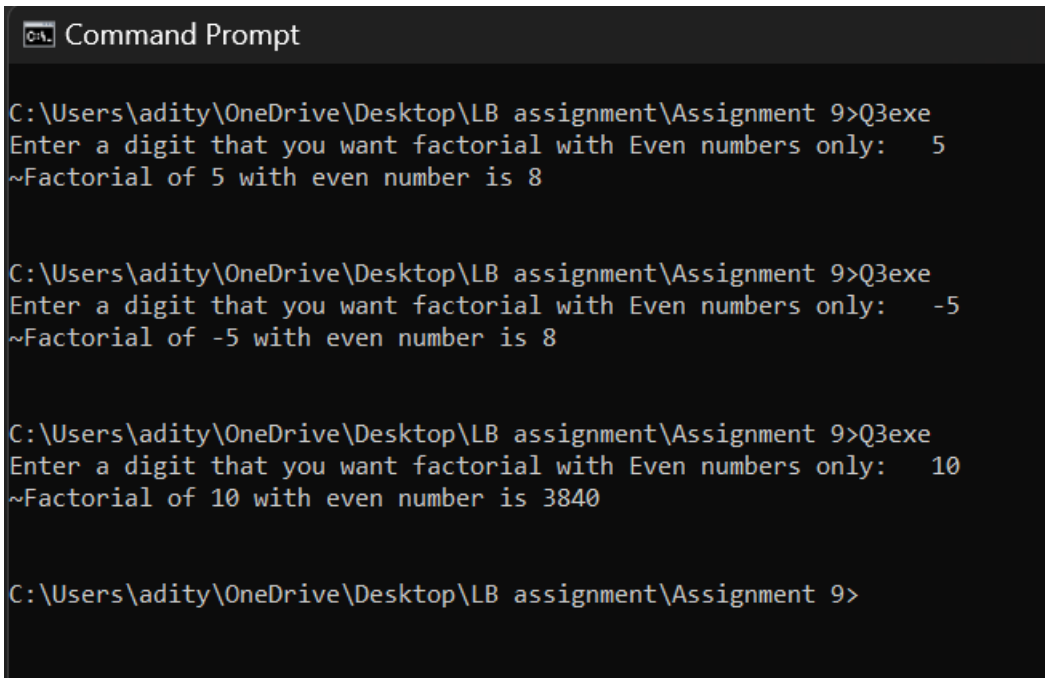
Q.3 Write a program to find even factors of given number.

Ans.

```c
#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;
}
```

```c
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:

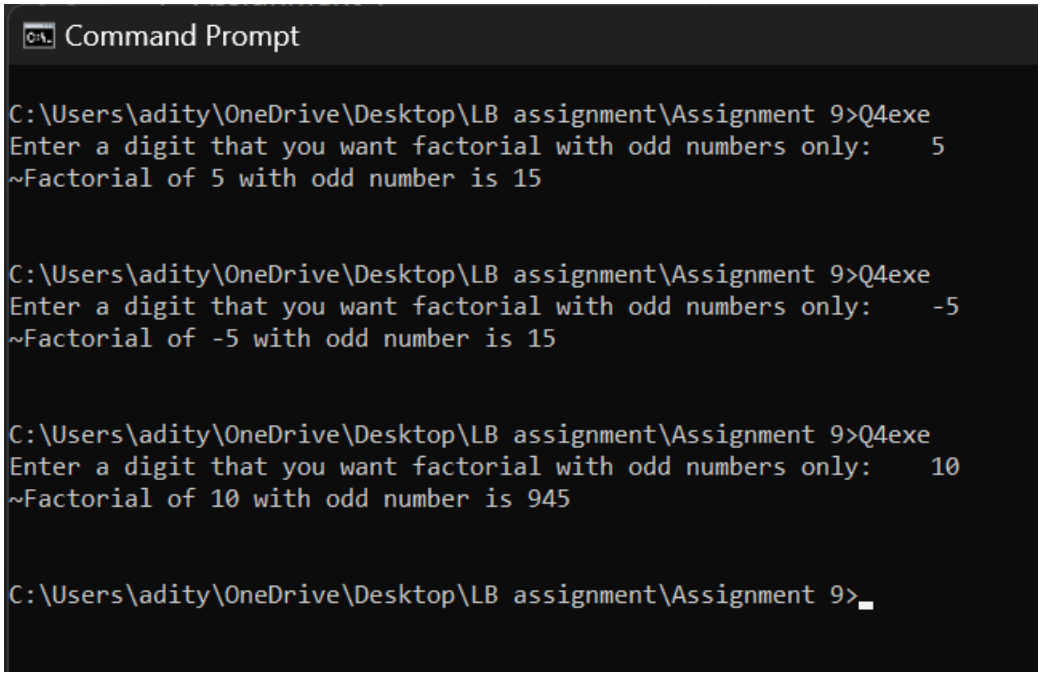


Q.4 Write a program to print factorial of number using only odd numbers.

Ans.

```c
#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:



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

Ans.

```c
#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: