LB

Assignment No-8

Q.1) Write a program which accept number from user and display below pattern.

input - 4

output - * * * * # # # #

```
#include <stdio.h>
void display (int iNO)
{   for (int i = 1 ; i <= iNO ; i++)
    {  printf(" * \t ");
    }

    for (int i = 1 ; i <= iNO ; i++)
    {  printf(" # \t ");
    }
}

int main()
{  int iVal = 0;
   printf("Enter number \n");
   scanf ("%d ", &iVal);
   display (iVal);
   return 0;
}
```

Q.2) Accept amount in US dollar and convert it in INR

Consider 1$ = 45 INR.

```
#include <stdio.h>
int  DollarToINR (int iNO)
{  int iResult = 0;
   iResult = iNO * 45;
   return  iResult;
}
```

```
int main()
{ int ival = 0;
  printf("Enter number \n");
  scanf("%d", &ival);
  int rupees = DollarToINR(ival);
  printf("Value in indian rupees is : %d "; rupees);
  return 0;
}
```

3) write a program to find even factors of a number

```
#include<stdio.h>
int Evenfactor(int iNO)
{ if(iNO<0)
  { iNO = -iNO;
  }
  int Fact = 1;
  for(int i = iNO, i>=1; i--);
  { if (i%2 =0)
    { Fact = Fact * i;
    }
  }
  return Fact;
}
int main()
{ int ival = 0;
  printf("Enter number \n");
  scanf("%d", &ival);
  int ifact = Evenfactor(ival);
  printf("Even factorial of number is : %d", ifact);
  return 0;
}
```

Q4 write a program to find odd factors of a number.

```
#include<stdio.h>
int oddfactor (int iNo)
{  if (iNo<0)
   {  iNo = -iNO;
   }
    int Fact=1
   for(int i=iNO ; i>=1 ; i--)
   {  if (i%2!=0)
      {  Fact = Fact * i);
      }
   }
   return ~~oddfactor~~ Fact;
}
int main()
{  int iVal = 0;
   printf ("Enter number\n");
   scanf ("%d", &iVal);
   int iFact = oddFactor(iVal);
   printf (" Odd Factorial of Number is : %d ", iFact);
   return 0;
}
```

Q5 write a program to return the difference between even and odd factorial

```
#include<stdio.h>
int EvenOddFactdiff (int iNO)
{  if (iNO<=0)
    {  iNO = - iNO;
    }

    int EvenFact = 1;
    int OddFact = 1;

    for(int i = iNO ;  i>=1 ;  i--)
    {  if (i%2 == 0)
        {  iEvenFact = iEvenFact * i;
        } else
        {  iOddfact = iOddFact * i;
        }
    }

    return  iEvenfact - iOddFact;
}

int main()
{  int iVal = 0;
   printf("Enter number \n");
   scanf("%d", &iVal);
   int iFact = EvenOddFactdiff(iVal);
   printf(" difference between even and odd Factorial
      is : %d ", iFact);
   return 0;
}
```