## **Assignment 3**

Q.1 Accept a number from users and print that number of seven number.

```
#include<stdio.h>

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

    for(iCnt=1;iCnt<=iVal;iCnt++)
    {
        iAns+=2;
        printf("%d\t",iAns);
    }
}

int main()
{
    int iNo=0;
    printf("Enter a number to rpint even numbers:\t");
    scanf("%d",&iNo);
    Display(iNo);
    return 0;
}</pre>
```

# C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 3>q1exe Enter a number to rpint even numbers: 7 2 4 6 8 10 12 14 C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 3>\_

Q.2 Accept a number from user and print even factors of that number using for loop.

```
#include<stdio.h>

void Display(int iVal)
{
    int iCnt=0;
    printf("Even Factors are:\n");
    for(iCnt=2;iCnt<=(iVal/2);iCnt+=2)
    {
        if(iVal%iCnt==0)
        {
            printf("%d\t",iCnt);
        }
    }
}

int main()
{
    int iNo=0;
    printf("Enter a number to print it's even factors:\t");
    scanf("%d",&iNo);
    Display(iNo);
    return 0;
}</pre>
```

Q.3 Accept a number from user and print even factors of that number using While loop.

```
#include<stdio.h>

void Display(int iVal)
{
    int iCnt=0;
    printf("Even Factors are:\n");

    iCnt=2;
    while (iCnt<=(iVal/2))
    {
        if(iVal%iCnt==0)
        {
            printf("%d\t",iCnt);
        }
        iCnt+=2;
    }
}

int main()</pre>
```

```
{
   int iNo=0;

   printf("Enter a number to print it's even factors:\t");
   scanf("%d",&iNo);

   Display(iNo);

   return 0;
}
```

Q.4 Accept one character from user and covert case of that character.

```
#include<stdio.h>
#include<ctype.h>

void Display(char cVar)
{
    if(cVar==tolower(cVar))
    {
       printf("The upper case is represented as:\t%c",toupper(cVar));
    }
}
```

```
else if(cVar==toupper(cVar))
{
    printf("The lower case is represented as :\t%c",tolower(cVar));
}

int main()
{
    char cVar='0';
    printf("Enter a single charecter to convert:\t");
    scanf("%c",&cVar);

    Display(cVar);
    return 0;
}
```

```
C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 3>q4exe
Enter a single charecter to convert: A
The lower case is represented as: a
C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 3>q4exe
Enter a single charecter to convert: a
The upper case is represented as: A
C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 3>_
```

Q.5 Accept one character from user and check whether the character is vowel or not

```
#include <stdio.h>
#include<stdbool.h>
char Vowel(char c)
 int lowercase_vowel, uppercase_vowel;
      // evaluates to 1 if variable c is a lowercase vowel
    lowercase_vowel = (c == 'a' || c == 'e' || c == 'i' || c == 'o' || c ==
'u');
    // evaluates to 1 if variable c is a uppercase vowel
   uppercase_vowel = (c == 'A' || c == 'E' || c == 'I' || c == '0' || c ==
'U');
       // evaluates to 1 (true) if c is a vowel
    if (lowercase_vowel || uppercase_vowel)
     return true;
int main() {
    char cVar=0;
    printf("Enter an alphabet: ");
    scanf("%c", &cVar);
    int iRet=Vowel(cVar);
    if(iRet==true)
      printf("%c is a vowel.", cVar);
  else{
     printf("%c is a consonant.", cVar);
    return 0;
```

## C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 3>q5exe Enter an alphabet: a a is a vowel. C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 3>q5exe Enter an alphabet: E E is a vowel. C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 3>q5exe Enter an alphabet: t t is a consonant. C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 3>