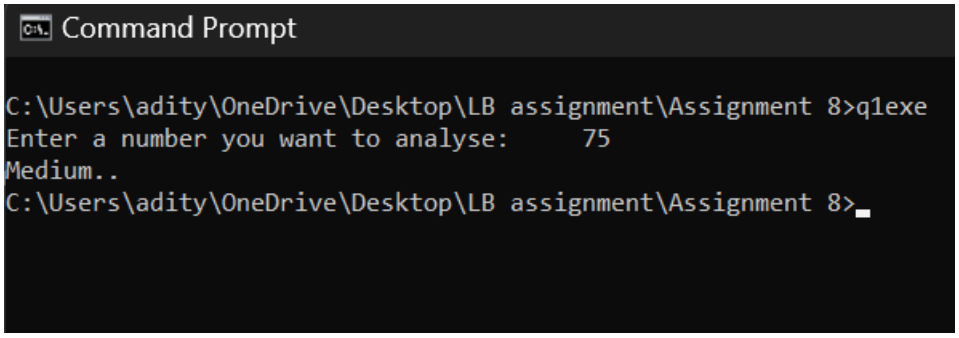
Assignment:8

Q.1 Accept a number and print small, medium, or large if number is less than 50, in between 50 and 100, and greater than 100 respectively.

Ans.

```
switch (iNo)
   {
   case 0:
       printf("Zero");
       break;
   case 1:
       printf("One");
       break;
   case 3:
       printf("Three");
       break;
   case 4:
       printf("Four");
       break;
   case 5:
       printf("Five");
       break;
   case 6:
       printf("Six");
       break;
   case 7:
       printf("Seven");
       break;
   case 8:
       printf("Eight");
       break;
   case 9:
       printf("Nine");
       break;
   }
```

OUTPUT:



Q.2 Accept a single number and print it into word.

Ans.

```c
#include<stdio.h>

void Display(int iVal)
{
    if(iVal<0)
    {
        iVal=-iVal;
    }

    switch (iVal)
    {
    case 1:
    printf("One");
        break;
    case 2:
    printf("Two");
        break;
    case 3:
    printf("Three");
        break;
    case 4:
    printf("Four");
        break;
    case 5:
    printf("Five");
        break;
    case 6:
    printf("Six");
        break;
```

```
    case 7:
    printf("Seven");
        break;
    case 8:
    printf("eight");
        break;
    case 9:
    printf("Nine");
        break;
    default:
    printf("Invalid input");
        break;
    }
}

int main()
{
   int iNo=0;

   printf("enter a number to covert into word:\t");
   scanf("%d",&iNo);

   Display(iNo);

   return 0;
}
```

OUTPUT:

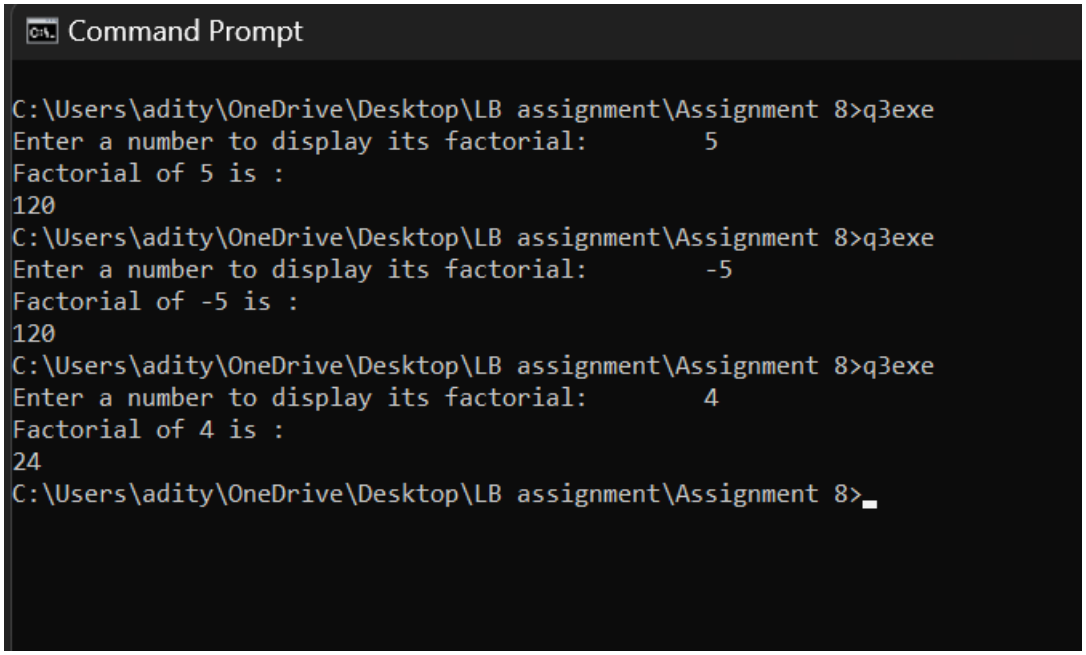
```
Command Prompt

C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 8>q2exe
enter a number to covert into word:     9
Nine
C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 8>q2exe
enter a number to covert into word:     -3
Three
C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 8>q2exe
enter a number to covert into word:     12
Invalid input
C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 8>
```

Q.3 Write a program to print factorial of given number.

Ans.

```c
#include<stdio.h>

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

    if(iVal<0)
    {
        iVal=-iVal;
    }
    for(iCnt=iVal;iCnt>0;iCnt--)
    {
        iFact*=iCnt;
    }

    return iFact;
}

int main()
{
    int iNo=0;

    printf("Enter a number to display its factorial:\t");
    scanf("%d",&iNo);

    int iRet=Factorial(iNo);

    printf("Factorial of %d is :\n%d",iNo,iRet);

    return 0;
}
```

OUTPUT:



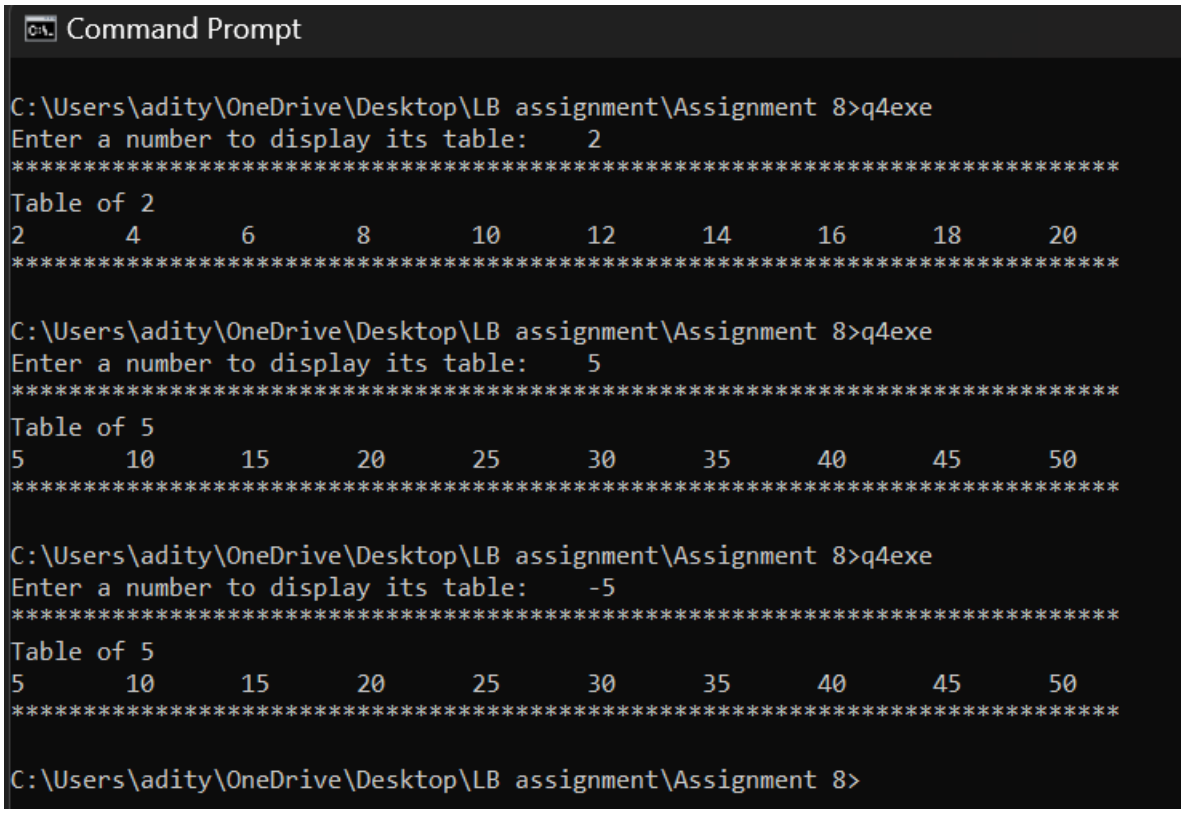
Q.4 Write a program to accept a number and display its table.

Ans.

```c
#include<stdio.h>

void Table(int iVal)
{
    int iCnt=0;
    int iMul=1;

    if(iVal<0)
    {
        iVal=-iVal;
    }
    printf("**********************************************************************
**********\n");
    printf("Table of %d\n",iVal);

    for(iCnt=1;iCnt<=10;iCnt++)
    {
        iMul=iVal*iCnt;
        printf("%d\t",iMul);
    }
     printf("\n");
```

```
     printf("**********************************************************************
***********\n");

}

int main()
{
    int iNo=0;

    printf("Enter a number to display its table:\t");
    scanf("%d",&iNo);

    Table(iNo);

    return 0;
}
```

OUTPUT:

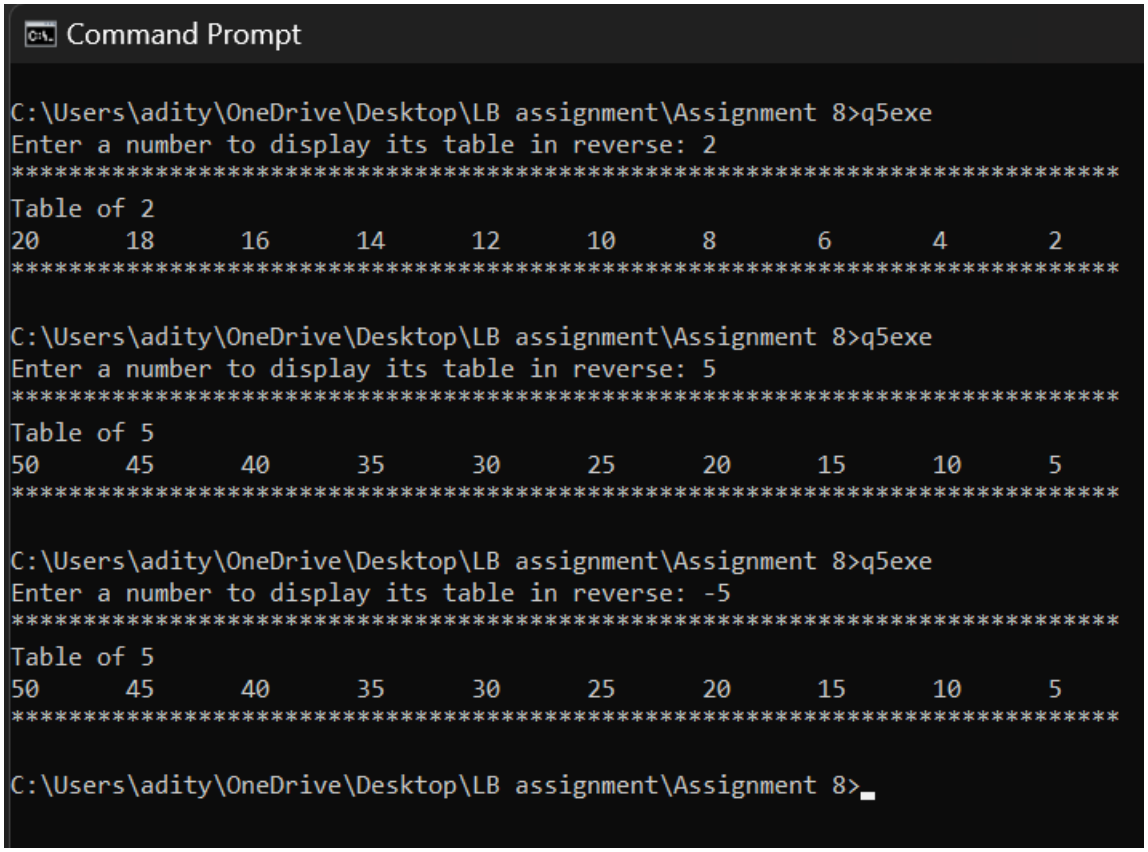


Q.5 Accept a number and print its table in reverse order.

Ans.

```
#include<stdio.h>

void Table(int iVal)
{
    int iCnt=0;
    int iMul=1;

    if(iVal<0)
    {
        iVal=-iVal;
    }
    printf("**********************************************************************
***********\n");
    printf("Table of %d\n",iVal);

    for(iCnt=10;iCnt>0;iCnt--)
    {
        iMul=iVal*iCnt;
        printf("%d\t",iMul);
    }
     printf("\n");
     printf("**********************************************************************
************\n");

}

int main()
{
    int iNo=0;

    printf("Enter a number to display its table in reverse:\t");
    scanf("%d",&iNo);

    Table(iNo);

    return 0;
}
```

OUTPUT:


Command Prompt
C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 8>q5exe
Enter a number to display its table in reverse: 2
****
Table of 2
20 18 16 14 12 10 8 6 4 2
****
C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 8>q5exe
Enter a number to display its table in reverse: 5
****
Table of 5
50 45 40 35 30 25 20 15 10 5
****
C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 8>q5exe
Enter a number to display its table in reverse: -5
****
Table of 5
50 45 40 35 30 25 20 15 10 5
****
C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 8>