Assignment:12

Q.1 Accept a number from user and print its digits in reverse order.

Ans.

```c
#include<stdio.h>

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

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

    while(iVal!=0)
    {
        iDigit=iVal%10;

        printf("%d\t",iDigit);

        iVal/=10;
    }
}

int main()
{
    int iNo=0;

    printf("Enter a number to print ista digits in reverse order:\n");
    scanf("%d",&iNo);

    Display(iNo);

    return 0;
}
```

OUTPUT:

```
Command Prompt

C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 12>q1exe
Enter a number to print ista digits in reverse order:
2395
5       9       3       2
C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 12>q1exe
Enter a number to print ista digits in reverse order:
1018
8       1       0       1
C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 12>q1exe
Enter a number to print ista digits in reverse order:
-1018
8       1       0       1
C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 12>q1exe
Enter a number to print ista digits in reverse order:
9000
0       0       0       9
C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 12>_
```

Q.2 Accept a number from user and check whether 0 is present .

Ans.

```c
#include<stdio.h>
#include<stdbool.h>

bool Display(int iVal)
{
    int iDigit=0;
    while(iVal!=0)
    {
        iDigit=iVal%10;
        if(iDigit==0)
        {
            break;
        }
        else
        {
            iVal/=10;
        }
    }

    if(iVal!=0)
```

```c
    {
        return true;
    }
}

int main()
{
    int iNo=0;

    printf("Enter a number to check zero:\n");
    scanf("%d",&iNo);

    bool bRet=Display(iNo);

    if(bRet==true)
    {
        printf("There is zero..");
    }
    else
    {
        printf("There is no zero...");
    }

    return 0;
}
```
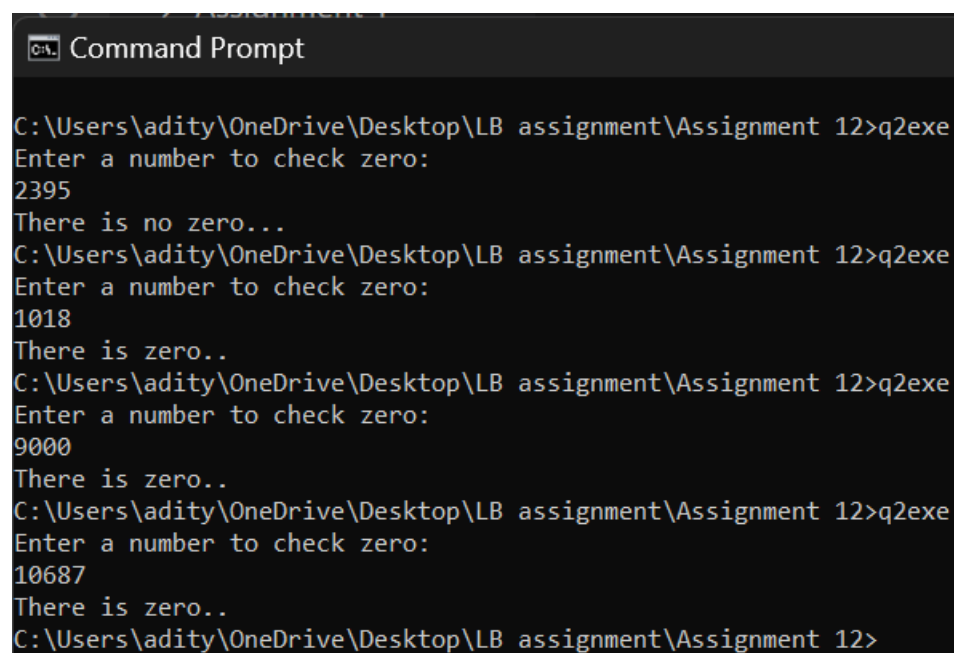
OUTPUT:


```
Command Prompt

C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 12>q2exe
Enter a number to check zero:
2395
There is no zero...
C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 12>q2exe
Enter a number to check zero:
1018
There is zero..
C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 12>q2exe
Enter a number to check zero:
9000
There is zero..
C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 12>q2exe
Enter a number to check zero:
10687
There is zero..
C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 12>
```

Q.3 Accept a number from user and count frequency of 2 in it.

Ans.

```c
#include<stdio.h>

int nFrequency(int iVal)
{
    int iDigit=0;
    int iFreq=0;
    while(iVal!=0)
    {
        iDigit=iVal%10;

        if(iDigit==2)
        {
            iFreq++;
        }
        iVal/=10;
    }

    return iFreq;
}

int main()
{
    int iNo=0;

    printf("Enter a number to check frequency of 2:\n");
    scanf("%d",&iNo);

    int iRet= nFrequency(iNo);

    printf("Frequecy of 2 in the number:  %d",iRet);

    return 0;
}
```

OUTPUT:

```
Command Prompt

C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 12>q3exe
Enter a number to check frequency of 2:
2395
Frequecy of 2 in the number:  1
C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 12>q3exe
Enter a number to check frequency of 2:
1018
Frequecy of 2 in the number:  0
C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 12>q3exe
Enter a number to check frequency of 2:
9000
Frequecy of 2 in the number:  0
C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 12>q3exe
Enter a number to check frequency of 2:
922432
Frequecy of 2 in the number:  3
C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 12>_
```

Q.4 Accept a number from user and count frequency of 4 in it.

Ans.

```c
#include<stdio.h>

int nFrequency(int iVal)
{
    int iDigit=0;
    int iFreq=0;
    while(iVal!=0)
    {
        iDigit=iVal%10;

        if(iDigit==4)
        {
            iFreq++;
        }
        iVal/=10;
    }

    return iFreq;
}
```

```c
int main()
{
    int iNo=0;

    printf("Enter a number to check frequency of 4:\n");
    scanf("%d",&iNo);

    int iRet= nFrequency(iNo);

    printf("Frequecy of 4 in the number:  %d",iRet);

    return 0;
}
```
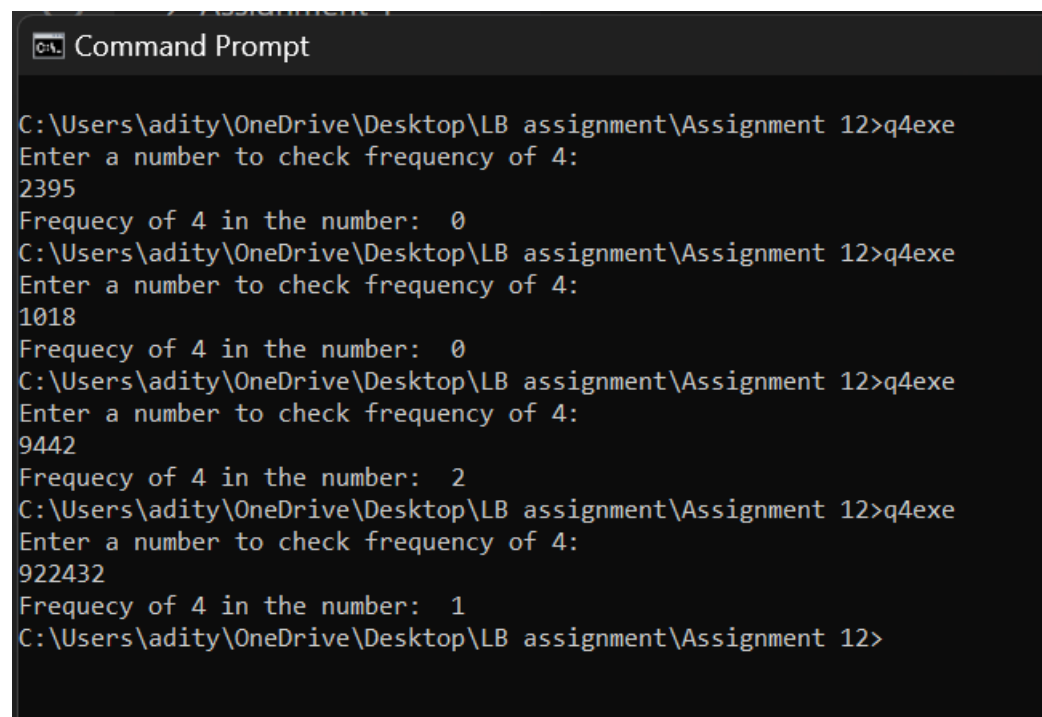
OUTPUT:

Q.5 Accept a number and count digits which are less than 6.

Ans.

```c
#include<stdio.h>

int nFrequency(int iVal)
{
    int iDigit=0;
    int iFreq=0;
    while(iVal!=0)
    {
        iDigit=iVal%10;

        if(iDigit<6)
        {
            iFreq++;
        }
        iVal/=10;
    }

    return iFreq;
}

int main()
{
    int iNo=0;

    printf("Enter a number to check frequency that is less than 6:\n");
    scanf("%d",&iNo);

    int iRet= nFrequency(iNo);

    printf("Total numbers Less than 6 are:  %d",iRet);

    return 0;
}
```

OUTPUT:

```
Command Prompt

C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 12>q5exe
Enter a number to check frequency that is less than 6:
2395
Total numbers Less than 6 are:  3
C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 12>q5exe
Enter a number to check frequency that is less than 6:
1018
Total numbers Less than 6 are:  3
C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 12>q5exe
Enter a number to check frequency that is less than 6:
9440
Total numbers Less than 6 are:  3
C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 12>q5exe
Enter a number to check frequency that is less than 6:
96672
Total numbers Less than 6 are:  1
C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 12>
```