Logic Building Assignment : 12

Create separate visual Studio project for each problem statement separately.
Calculate Time Complexity of each program.

1. Write a program which accept number from user and display its digits in reverse order.

```
Input :     2395
Output :    5
            9
            3
            2

Input :     1018
Output :    8
            1
            0
            1

Input :     -1018
Output :    8
            1
            0
            1

Input :     9000
Output :    0
            0
            0
            9
```

```
#include<stdio.h>

void DisplayDigit(int iNo)
{
      int iDigit = 0;

      if(_____)
      {
            iNo = -iNo;
      }

      while(_____)
```

```
        {
                iDigit = _______________;
                printf("%d",iDigit);
                _______ = ______ / _______;
        }
}

int main()
{
        int iValue = 0;

        printf("Enter number");
        scanf("%d",&iValue);

        DisplayDigit(iValue);

        return 0;
}
```

2. Write a program which accept number from user and check whether it contains 0 in it or not.

```
Input :     2395
Output :    There is no Zero

Input :     1018
Output :    It Contains Zero

Input :     9000
Output :    It Contains Zero

Input :     10687
Output :    It Contains Zero
```

```
#include<stdio.h>

#define TRUE 1
#define FALSE 0

typedef int BOOL;

BOOL ChkZero(int iNo)
{
        // Logic
}

int main()
```

```
{
	int iValue = 0;
	BOOL bRet = FALSE;

	printf("Enter number");
	scanf("%d",&iValue);

	bRet = ChkZero(iValue);

	if(bRet == TRUE)
	{
		printf("It Contains Zero");
	}
	else
	{
		printf("There is no Zero")
	}

	return 0;
}
```

3. Write a program which accept number from user and count frequency of 2 in it.

```
Input :	2395
Output :	1

Input :	1018
Output :	0

Input :	9000
Output :	0

Input :	922432
Output :	3
```

```
#include<stdio.h>

int CountTwo(int iNo)
{
	// Logic
}

int main()
{
	int iValue = 0;
	int bRet = 0;
```

```
	printf("Enter number");
	scanf("%d",&iValue);

	iRet = CountTwo(iValue);

	printf("%d",iRet);

	return 0;
}
```

4. Write a program which accept number from user and count frequency of 4 in it.

```
Input :	2395
Output :	0

Input :	1018
Output :	0

Input :	9440
Output :	2

Input :	922432
Output :	1

#include<stdio.h>

int CountFour(int iNo)
{
	// Logic
}

int main()
{
	int iValue = 0;
	int iRet = 0;

	printf("Enter number");
	scanf("%d",&iValue);

	iRet = CountFour(iValue);

	printf("%d",iRet);

	return 0;
}
```

5. Write a program which accept number from user and count frequency of such a digits which are less than 6.

Input : 2395
Output : 3

Input : 1018
Output : 3

Input : 9440
Output : 3

Input : 96672
Output : 1

```
#include<stdio.h>

int Count(int iNo)
{
	// Logic
}

int main()
{
	int iValue = 0;
	int iRet = 0;

	printf("Enter number");
	scanf("%d",&iValue);

	iRet = Count(iValue);

	printf("%d",iRet);

	return 0;
}
```