# Logic Building Assignment :  6

# Calculate Time Complexity of each program.

1. Write a program which accept number from user and return the count of even digits.

Input :      2395
Output :    1

Input :      1018
Output :    2

Input :      -1018
Output :    2

Input :      8462
Output :    4

```c
#include<stdio.h>

int CountEven(int iNo)
{
      // Logic
}

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

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

      iRet = CountEven(iValue);

      printf("%d",iRet);

      return 0;
}
```

2. Write a program which accept number from user and return the count of odd digits.

Input :      2395

Output :    3

Input :    1018
Output :    2

Input :    -1018
Output :    2

Input :    8462
Output :    0

```c
#include<stdio.h>

int CountOdd(int iNo)
{
    // Logic
}

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

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

    iRet = CountOdd(iValue);

    printf("%d",iRet);

    return 0;
}
```

3. Write a program which accept number from user and return the count of digits in between 3 and 7.

Input :    2395
Output :    1

Input :    1018
Output :    0

Input :    4521
Output :    2

Input :    9922
Output :    0

```c
#include<stdio.h>

int CountRange(int iNo)
{
      // Logic
}

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

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

      iRet = CountRange(iValue);

      printf("%d",iRet);

      return 0;
}
```

4. Write a program which accept number from user and return multiplication of all digits.

Input :     2395
Output :    270

Input :     1018
Output :    8

Input :     9440
Output :    144

Input :     922432
Output :    864

```c
#include<stdio.h>

int MultDigits(int iNo)
{
      // Logic
}

int main()
{
```

```
        int iValue = 0;
        int iRet = 0;

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

        iRet = MultDigits(iValue);

        printf("%d",iRet);

        return 0;
}
```

5. Write a program which accept number from user and return difference between summation of even digits and summation of odd digits.

```
Input :     2395
Output :    -15   (2 - 17)

Input :     1018
Output :    6     (8 - 2)

Input :     8440
Output :    16    (16 - 0)

Input :     5733
Output :    -18   (0 - 18)
```

```
#include<stdio.h>

int CountDiff(int iNo)
{
        // Logic
}

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

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

        iRet = CountDiff(iValue);

        printf("%d",iRet);
```

```
    return 0;
}
```