Logic Building Assignment : 5

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 multiplication of factors.

Input :   12
Output :   144   (1 * 2 * 3 * 4 * 6)

Input :   13
Output :   1   (1)

Input :   10
Output :   10   (1 * 2 * 5)

```
#include<stdio.h>

int MultFact(int iNo)
{

    // Logic

}

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

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

    iRet = MultFact(iValue);

    printf("%d",iRet);

    return 0;
}
```

2.Write a program which accept number from user and display its factors in decreasing order.

Input :   12
Output :   6   4   3   2   1

Input :   13
Output :   1

Input :   10
Output :   5   2   1

```c
#include<stdio.h>

void FactRev(int iNo)
{

    // Logic

}

int main()
{
    int iValue = 0;

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

    FactRev(iValue);

    return 0;
}
```

3.Write a program which accept number from user and display all its non factors.

Input :   12
Output :   5   7   8   9   10   11

Input :   13
Output :   2   3   4   5   6   7   8   9   10   11   12

Input :   10
Output :   3   4   6   7   8   9

```c
#include<stdio.h>

void NonFact(int iNo)
{

    // Logic

}
```

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

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

    NonFact(iValue);

    return 0;
}
```

4. Write a program which accept number from user and return summation of all its non factors.

```
Input :     12
Output :    50

Input :     10
Output :    37
```

```
#include<stdio.h>

int SumNonFact(int iNo)
{

    // Logic

}

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

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

    iRet  = SumNonFact(iValue);

    printf("%d",iRet);

    return 0;
}
```

5. Write a program which accept number from user and return difference between summation of all its factors and non factors.

Input :   12
Output :   -34   (16 - 50)

Input :   10
Output :   -29   (8 - 37)

```c
#include<stdio.h>

int FactDiff(int iNo)
{

    // Logic

}

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

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

    iRet  = FactDiff(iValue);

    printf("%d",iRet);

    return 0;
}
```