

Logic Building Assignment: 40

Complete below code snippets it contains only service provider function.

Write entry point function to call below helper functions separately.

 Write a program which accept one number from user and count number of ON (1) bits in it without using % and / operator.

```
Input: 11
Output: 3
int CountOne(UINT iNo)
{
    // Logic
}
```

2. Write a program which accept two numbers from user and display position of common ON bits from that two numbers.

```
Input: 10 15 (1010 1111)
Output: 2 4

void CommonBits(UINT iNo1, UINT iNo2)
{
    // Logic
}
```

3. Write a program which accept one number from user and check whether 9th or 12th bit is on or off.

```
Input: 257
Output: TRUE

BOOL ChkBit(UINT iNo)
{
    // Logic
}
```

4. Write a program which accept one number , two positions from user and check whether bit at first or bit at second position is ON or OFF.

```
Input: 10 3 7
Output: TRUE
```



5. Write a program which accept one number from user and range of positions from user. Toggle all bits from that range.

```
Input: 897     9     13
Toggle all bits from position 9 to 13 of input number ie 879.

UINT ToggleBitRange(UINT iNo, int iStart, int iEnd)
{
      // Logic
}
```