Logic Building Assignment : 11

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

1. Write a program which accept range from user and display all numbers in between that range.

```
Input :     23    35
Output :    23    24    25    26    27    28    29    30    31    32    33    34    35

Input :     10    18
Output :    10    11    12    13    14    15    16    17    18

Input :     10    10
Output :    10

Input :     -10   2
Output :    -10   -9    -8    -7    -6    -5    -4    -3    -2    -1    0    1    2

Input :     90    18
Output :    Invalid range
```

```c
#include<stdio.h>

void RangeDisplay(int iStart , int iEnd)
{
    // Logic
}

int main()
{
    int iValue1 = 0, iValue2 = 0;

    printf("Enter starting point");
    scanf("%d",&iValue1);

    printf("Enter ending point");
    scanf("%d",&iValue2);

    RangeDisplay(iValue1, iValue2);

    return 0;
}
```

2. Write a program which accept range from user and display all even numbers in between that range.

Input :   23   35
Output :   24   26   28   30   32   34

Input :   10   18
Output :   10   12   14   16   18

Input :   10   10
Output :   10

Input :   -10   2
Output :   -10   -8   -6   -4   -2   0   2

Input :   90   18
Output :   Invalid range

```c
#include<stdio.h>

void RangeDisplayEven(int iStart , int iEnd)
{
    // Logic
}

int main()
{
    int iValue1 = 0, iValue2 = 0;

    printf("Enter starting point");
    scanf("%d",&iValue1);

    printf("Enter ending point");
    scanf("%d",&iValue2);

    RangeDisplayEven(iValue1, iValue2);

    return 0;
}
```

3. Write a program which accept range from user and return addition of all numbers in between that range. (Range should contains positive numbers only)

Input :   23   30
Output :   212

Input :   10   18

Output :   126

Input :   -10   2
Output :   Invalid range

Input :   90   18
Output :   Invalid range

```c
#include<stdio.h>

int RangeSum(int iStart , int iEnd)
{
    // Logic
}

int main()
{
    int iValue1 = 0, iValue2 = 0, iRet =0;

    printf("Enter starting point");
    scanf("%d",&iValue1);

    printf("Enter ending point");
    scanf("%d",&iValue2);

    iRet = RangeSum(iValue1, iValue2);

    printf("Addition is %d",iRet);

    return 0;
}
```

4. Write a program which accept range from user and return addition of all even numbers in between that range. (Range should contains positive numbers only)

Input :   23   30
Output :   108

Input :   10   18
Output :   70

Input :   -10   2
Output :   Invalid range

Input :   90   18
Output :   Invalid range

```
#include<stdio.h>

int RangeSumEven(int iStart , int iEnd)
{
    // Logic
}

int main()
{
    int iValue1 = 0, iValue2 = 0, iRet =0;

    printf("Enter starting point");
    scanf("%d",&iValue1);

    printf("Enter ending point");
    scanf("%d",&iValue2);

    iRet = RangeSumEven(iValue1, iValue2);

    printf("Addition is %d",iRet);

    return 0;
}
```

5. Write a program which accept accept range from user and display all numbers in between that range in reverse order.

```
Input :    23   35
Output :   35   34   33   32   31   30   29   28   27   26   25   24   23

Input :    10   18
Output :   18   17   16   15   14   13   12   11   10

Input :    10   10
Output :   10

Input :    -10  2
Output :   2    1    0    -1   -2   -3   -4   -5   -6   -7   -8   -9   -10

Input :    90   18
Output :   Invalid range
```

```
#include<stdio.h>

void RangeDisplayRev(int iStart , int iEnd)
{
    // Logic
```

```
}

int main()
{
        int iValue1 = 0, iValue2 = 0;

        printf("Enter starting point");
        scanf("%d",&iValue1);

        printf("Enter ending point");
        scanf("%d",&iValue2);

        RangeDisplayRev(iValue1, iValue2);

        return 0;
}
```