Logic Building Assignment : 9

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

```c
#include<stdio.h>

int RangeSumEven(int iStart , int iEnd)
```

```c
{
    // 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

```c
#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;
}
```