

Logic Building Assignment : 10

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

```
#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

```
#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

```
#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 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;  
}
```

