

Assignment:11

Q.1 Write a program which accepts a range from user and print numbers in between that range.

Ans.

```
#include<stdio.h>

void Display(int iVal1, int iVal2)
{
    int iCnt=0;

    iCnt=iVal1;
    while(iCnt<=iVal2)
    {
        printf("%d\t",iCnt);
        iCnt++;
    }
}

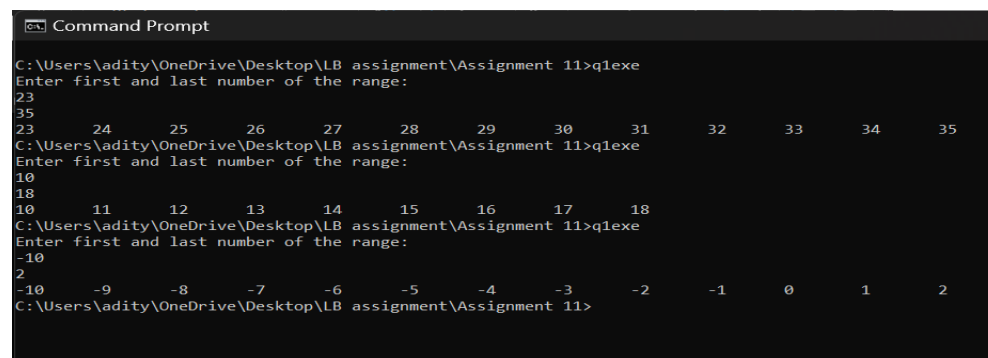
int main()
{
    int iNo1=0,iNo2=0;

    printf("Enter first and last number of the range:\n");
    scanf("%d %d",&iNo1,&iNo2);

    Display(iNo1,iNo2);

    return 0;
}
```

OUTPUT:



```
Command Prompt
C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 11>q1.exe
Enter first and last number of the range:
23
35
23    24    25    26    27    28    29    30    31    32    33    34    35
C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 11>q1.exe
Enter first and last number of the range:
10
18
10    11    12    13    14    15    16    17    18
C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 11>q1.exe
Enter first and last number of the range:
-10
2
-10   -9   -8   -7   -6   -5   -4   -3   -2   -1   0   1   2
C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 11>
```

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

Ans.

```
#include<stdio.h>

void Display(int iVal1, int iVal2)
{
    int iCnt=0;

    if(iVal1>iVal2)
    {
        printf("Invalid Range...\n");
    }

    else
    printf("Even numbers in the range are:\n");
    iCnt=iVal1;
    while(iCnt<=iVal2)
    {
        if(iCnt%2==0)
        {
            printf("%d\t",iCnt);
            iCnt+=2;// N/2
        }
        else
        {
            iCnt++;
        }
    }
}

int main()
{
    int iNo1=0,iNo2=0;

    printf("Enter first and last number of the range:\n");
    scanf("%d %d",&iNo1,&iNo2);

    Display(iNo1,iNo2);

    return 0;
}
```

OUTPUT:

```
Command Prompt
Enter first and last number of the range:
23
35
Even numbers in the range are:
24      26      28      30      32      34
C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 11>q2exe
Enter first and last number of the range:
10
18
Even numbers in the range are:
10      12      14      16      18
C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 11>q2exe
Enter first and last number of the range:
10
10
Even numbers in the range are:
10
C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 11>q2exe
Enter first and last number of the range:
-10
2
Even numbers in the range are:
-10      -8      -6      -4      -2      0      2
C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 11>q2exe
Enter first and last number of the range:
90
18
Invalid Range...
```

Q.3 Write a program which accepts a range and returns addition of only positive numbers of that range.

Ans.

```
#include<stdio.h>

int Display(int iVal1, int iVal2)
{
    int iCnt=0;
    int iAdd=0;

    if(((iVal1<0)|| (iVal2<0))|| (iVal1>iVal2))
    {
        iAdd=-1;
    }
}
```

```

        else
        {
            iCnt=iVal1;
            while(iCnt<=iVal2)
            {
                iAdd+=iCnt;
                iCnt++;
            }
        }
        return iAdd;
    }

int main()
{
    int iNo1=0,iNo2=0;

    printf("Enter first and last number of the range:\n");
    scanf("%d %d",&iNo1,&iNo2);

    int iRet= Display(iNo1,iNo2);
    if(iRet<0)
    {
        printf("Invalid range...");
    }
    else
    {
        printf("Addition of Even numbers in the range is:\n%d",iRet);
    }
    return 0;
}

```

OUTPUT:

```

C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 11>q3exe
Enter first and last number of the range:
23
30
Addition of Even numbers in the range is:
212
C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 11>q3exe
Enter first and last number of the range:
10
18
Addition of Even numbers in the range is:
126
C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 11>q3exe
Enter first and last number of the range:
-10
2
Invalid range...
C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 11>q3exe
Enter first and last number of the range:
90
18
Invalid range...
C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 11>

```

Q.4 Write a program which accepts a range and print addition of even positive numbers of that range.

Ans.

```
#include<stdio.h>

int Display(int iVal1, int iVal2)
{
    int iCnt=0;
    int iAdd=0;

    if(((iVal1<0)|| (iVal2<0))|| (iVal1>iVal2))
    {
        iAdd=-1;
    }

    else
    {
        iCnt=iVal1;
        while(iCnt<=iVal2)
        {
            if(iCnt%2==0)
            {
                iAdd+=iCnt;
                iCnt+=2; // N/2
            }
            else
            {
                iCnt++;
            }
        }
    }
    return iAdd;
}

int main()
{
    int iNo1=0,iNo2=0;
```

```

printf("Enter first and last number of the range:\n");
scanf("%d %d",&iNo1,&iNo2);

int iRet= Display(iNo1,iNo2);

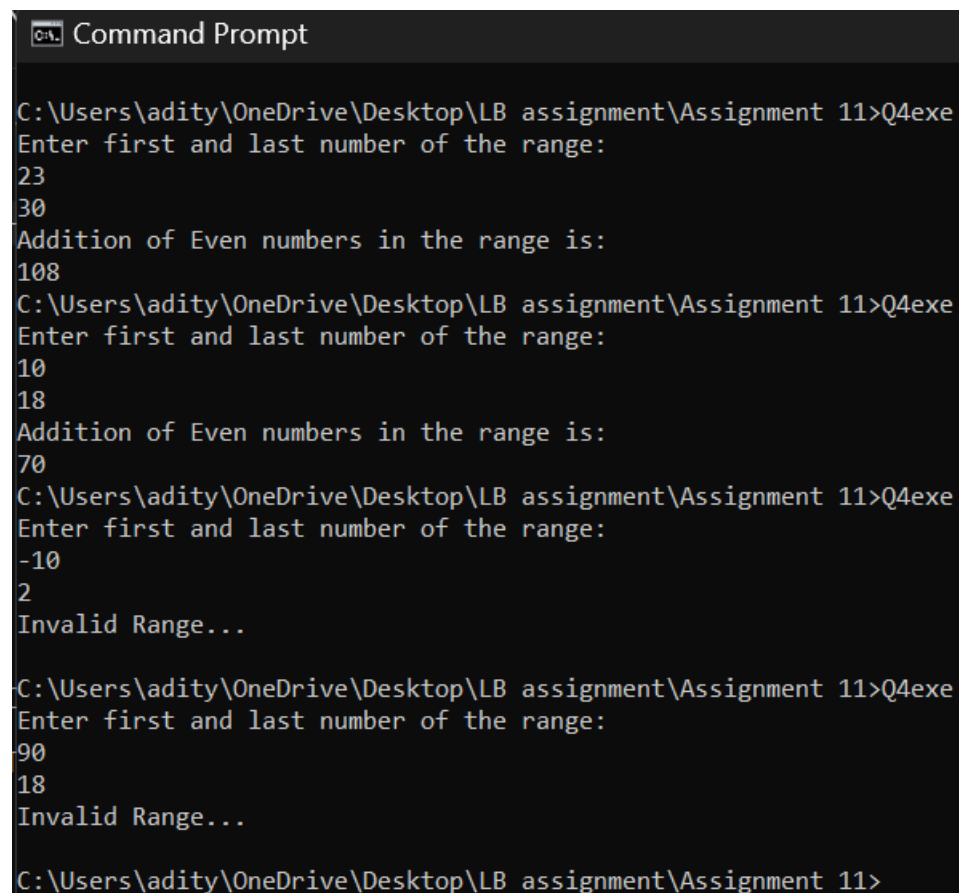
if(iRet<0)
{
    printf("Invalid Range...\n");
}

else
{
    printf("Addition of Even numbers in the range is:\n%d",iRet);
}

return 0;
}

```

OUTPUT:



```

C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 11>Q4.exe
Enter first and last number of the range:
23
30
Addition of Even numbers in the range is:
108
C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 11>Q4.exe
Enter first and last number of the range:
10
18
Addition of Even numbers in the range is:
70
C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 11>Q4.exe
Enter first and last number of the range:
-10
2
Invalid Range...
C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 11>Q4.exe
Enter first and last number of the range:
90
18
Invalid Range...
C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 11>

```

Q.5 Accept a range from the user and print all the numbers in between in reverse order.

Ans.

```
#include<stdio.h>

int Display(int iVal1, int iVal2)
{
    int iCnt=0;

    if(iVal1>iVal2)
    {
        printf("Invalid range...");
    }

    else
    {
        iCnt=iVal2;
        while(iCnt>=iVal1)
        {
            printf("%d\t",iCnt);
            iCnt--;
        }
    }
}

int main()
{
    int iNo1=0,iNo2=0;

    printf("Enter first and last number of the range:\n");
    scanf("%d %d",&iNo1,&iNo2);

    Display(iNo1,iNo2);

    return 0;
}
```

OUTPUT:

```
Command Prompt

C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 11>q5exe
Enter first and last number of the range:
23
35
35      34      33      32      31      30      29      28      27      26      25      24      23
C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 11>q5exe
Enter first and last number of the range:
10
18
18      17      16      15      14      13      12      11      10
C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 11>q5exe
Enter first and last number of the range:
10
10
10
C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 11>q5exe
Enter first and last number of the range:
-10
2
2      1      0      -1      -2      -3      -4      -5      -6      -7      -8      -9      -10
C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 11>q5exe
Enter first and last number of the range:
90
18
Invalid range...
C:\Users\adity\OneDrive\Desktop\LB assignment\Assignment 11>
```