HW6\src\Lab6.java

```java
 1  /*
 2  Name: Hunter Poole
 3  Date: 3/5/25
 4  Lab #: 6
 5  Source Code: Lab6.java
 6  Action: Given two integers, adds inclusively between them
 7          EX: 3, 7 = 3+4+5+6+7 = 25
 8  */
 9
10  import java.util.Scanner;
11
12  public class Lab6 {
13
14      public static void main(String[] args)
15      {
16          int Int1, Int2, Int1While, Int1Do, Int1For, WhileSum = 0, DoSum = 0, ForSum = 0;
17
18          Scanner Input = new Scanner(System.in);
19          System.out.print("Enter first number ");
20          Int1 = Input.nextInt();
21
22          System.out.print("Enter second number ");
23          Int2 = Input.nextInt();
24
25          Int1While = Int1;
26          Int1Do = Int1;
27          Int1For = Int1;
28
29          while (Int1While <= Int2)
30          {
31              WhileSum = WhileSum + Int1While++;
32          }
33
34          System.out.printf("%n%s %d %n","Sum while loop is", WhileSum);
35
36          do
37          {
38              DoSum = DoSum + Int1Do++;
39          } while (Int1Do <= Int2);
40
41          System.out.println("Sum do loop is     " + DoSum);
42
43          for (int i = Int1For; i <= Int2; i++)
44          {
45              ForSum = ForSum + Int1For++;
46          }
47
```

```java
48            System.out.println("Sum for loop is   " + ForSum);
49        }
50 }
51
52 /*
53 Enter first number 3
54 Enter second number 7
55
56 Sum while loop is 25
57 Sum do loop is    25
58 Sum for loop is   25
59
60 Enter first number 7
61 Enter second number 3
62
63 Sum while loop is 0
64 Sum do loop is    7
65 Sum for loop is   0
66
67 Enter first number 7
68 Enter second number 14
69
70 Sum while loop is 84
71 Sum do loop is    84
72 Sum for loop is   84
73  */
```