

Panel 1

if constructions ✓

loops — for easier; if # times to loop is known
 while flexible; if # times to loop is unknown

~~do~~

<pre> for (int i=0; i<10; i++) { } </pre>	<pre> int i=0; while (i<10) { i++; } </pre>
----------------------------------------------	----------------------------------------------------

1

Panel 2

Program with for loop; I like Java 10-times

Next: User input!

Console.java download from HW
 Right-click, save as ...
 Save into your Project folder !!!

From Bluej, pick
 File | Import
 choose current project folder

⇒ See Console

2

Panel 3

Console provides:

Console.readDouble() - returns double

Console.readInt() - returns int

Console.readString() - returns String

Job: Compute sum of positive integers up to
value provided by the user.

info to store: int to store what user enters ✓

int to compute sum ✓

loop for

System.out.println(---)

Panel 4

Panel 5

Ex Write a program to find average score of a quiz or exam in a class.

① Math formula: $\text{average} = \frac{\text{add numbers}}{\text{total \#}}$

② See:

```

public class Junk
{
    public static void main(String args[])
    {
        System.out.println("*****");
        System.out.println(" This program finds averages ");
        System.out.println("*****");
        System.out.println();
        System.out.print("How many students: ");
        int numberOfStudents = Console.readInt();
        double sum = 0.0;
        for (int counter = 0; counter < numberOfStudents ; counter++)
        {
            System.out.println("Enter score: ");
            int score = Console.readInt();
            sum = sum + score;
        }
        System.out.println("Average is " + (sum/numberOfStudents));
    }
}

```

5

Panel 6

① Find all divisors of an integer

```

public class Divisors
{
    public static void main(String args[])
    {
        System.out.print("Enter number to check: ");
        int number = Console.readInt();

        for (int divisor = 2; divisor < number; divisor++)
        {
            if ((number % divisor) == 0)
            {
                System.out.println(number + " is divisible by " + divisor);
            }
        }
    }
}

```

6