

Lesson 12 Coding Activities

You can use the templates below in DrJava, or the IDE of your choice. Download the zipped .java starter files with the templates below, to get a head start on the activity.

Come to the forum with your questions and to share your test cases.

1. Write a program to input three integers. Test if the average is greater than or equal to 89.5. If so, print out the phrase "ABOVE AVERAGE" (without the quotes).

```
import java.util.Scanner;

class Lesson_12_Activity_One {
    public static void main(String[] args)
    {
        /*
        * Write your code here
        * Copy and paste your entire program to Code Runner
        * to complete the activity, from the first import statement
        * to the last bracket.
        */
    }
}
```

2. Input two decimal numbers and print the largest. If the numbers are equal, print one of them.

Sample Run 1:

```
Please enter two numbers:
45.7
45.1

Largest is: 45.7
```

Sample Run 2:

```
Please enter two numbers:
14
14

Largest is: 14.0
```

```
import java.util.Scanner;

class Lesson_12_Activity_Two {
    public static void main(String[] args)
    {
        /*
        * Write your code here
        * Copy and paste your entire program to Code Runner
        * to complete the activity, from the first import statement
        * to the last bracket.
        */

    }
}
```

3. Test if a number input from the keyboard is a valid test score (between 0 and 100 inclusive).

Sample Run 1:

```
Enter a test score:
78.5
Valid
```

Sample Run 2:

```
Enter a test score:
179
Not Valid
```

```
import java.util.Scanner;

class Lesson_12_Activity_Three {
    public static void main(String[] args)
    {
        /*
        * Write your code here
        * Copy and paste your entire program to Code Runner
        * to complete the activity, from the first import statement
        * to the last bracket.
        */

    }
}
```

4. You are running an experiment that involves hatching chicken eggs. Bird eggs are very sensitive to temperature and chickens' eggs will hatch between 99 and 102 degrees Fahrenheit.

Write the code for the sensor that will be tracking the temperature. If the temperature falls below 99 or above 102 your code should print "WARNING". The input should be in doubles.

Sample Run 1:

```
What is the temperature?  
45.3  
WARNING
```

Sample Run 2:

```
What is the temperature?  
100.0
```

```
import java.util.Scanner;  
  
class Lesson_12_Activity_Four {  
    public static void main(String[] args)  
    {  
        /*  
        * Write your code here  
        * Copy and paste your entire program to Code Runner  
        * to complete the activity, from the first import statement  
        * to the last bracket.  
        */  
    }  
}
```