Questions

QUESTIONS

Declare variables to hold the following data:

- a vehicle identification number in the range 1000000 - 9999999

- a vehicle make /model (i.e. Ford Explorer)

- a vehicle color

- whether the vehicle has a towing package

- an odometer reading

- a price

- a quality rating (A, B, or C)

You can write them in Notepad or even send them in the Zoom chat window

Exercises

Create a new subfolder in your `LearnToCode\Workbook1` folder named `Mod03` to hold the exercises for this module. The project for each exercise below should be in its own subfolder under `Mod03`.

EXERCISE 1

Create a new Java Project named **MathApplication**. Add a new package named `com.learntocode` with a file named `MathApp.java` structured as follows:

```
public class MathApp {
   public static void main(String[] args) {

      // FOR ONE EXERCISE
      // declare variables here
      // then code solution
      // then use System.out.println() to display results
      // ex: System.out.println("The answer is " + answer);

      // REPEAT FOR NEXT EXERCISE

   }
}
```

Write code to find answers to the following questions.

QUESTIONS:

1. Find and display the largest of two variables named `job1Salary` and `job2Salary` using `Math.max()`. Set the variables to any value you want.

2. Find and display the smallest of two variables named `carPrice` and `truckPrice`. Set the variables to any value you want.

3. Find and display the area of a circle whose radius is 7.25

4. Find and display the square root the variable `num1` after it is set to 5.0

5. Find and display the distance between the points (5, 10) and (85, 50)

6. Find and display the absolute (positive) value of `num2` after it is set to -3.8

7. Find and display a random number between 0 and 1