

ACS-1903

Lab #2

Due by Friday Sept 13 at 11:59 pm

If you questions during this lab do not hesitate to ask your lab demonstrator.

You will need your ACS username and password to log in to the workstations in 3C13 (lab #1).

1. Create a project named `Lab2`.
2. All classes **must** have comments at the beginning containing your name and student number.
3. Create a java class named `PerimeterOfRectangle` that does the following
 - prompts the user for the length and width of a rectangle,
e.g. `Enter length and width of a rectangle as integers:`
 - and then reports the 3 values: length, width, and perimeter of the rectangle.

For example, suppose the user entered values 10 and 20 for the length and width respectively, then your program **must** display the following sentence:

```
A rectangle of length 10 and width 20 has a perimeter 60.
```

4. Create a java class named `InchesToYardsFeetInches` that does the following
 - Prompts the user for the number of inches.
e.g. `Enter inches as an integer:`
 - Converts the value to yards, feet and inches, and reports the results. Your program must work for any positive integer entered by the user.
 - Examples:
 - suppose the user entered 100, then your program must display the following sentence:
`100 inches is equivalent to 2 yards 2 feet 4 inches.`
 - suppose the user entered 30, then your program must display the following sentence:
`30 inches is equivalent to 0 yards 2 feet 6 inches.`
 - suppose the user entered 10, then your program must display the following sentence:
`10 inches is equivalent to 0 yards 0 feet 10 inches.`

Submit the two files

- `PerimeterOfRectangle.java`
- `InchesToYardsFeetInches.java`

to the email corresponding to **your lab section** with a **Subject line** `Lab2`

E.g. if you are registered in lab ACS-1903L-070 then the email address to send to is `1903L-070@acs.uwinnipeg.ca`