## CS410 INTRODUCTION TO COMPUTER SCIENCE PROGRAMMING LAB

## Programming Assignment 1

- 1. Create a folder called CS410Assign1
- 2. Start up NotePad++ and choose Language-Java
- 3. Key in the program below

```
// Author: Your name here
// Filename: ComputeArea.java
// Date: Today's date and classtime
// Program to calculate area of a circle given the radius
import java.util.Scanner;
public class ComputeArea
   public static void main(String[] args)
      Scanner input = new Scanner(System.in);
      double radius; // Declare radius
      double area;
                          // Declare area
      // Prompt user to enter a radius
      System.out.print("Enter a number for radius: ");
      radius = input.nextDouble();
      // Compute area
      area = radius * radius * 3.14159;
      // Display results
      System.out.println("The area for the circle of radius "
            + radius + " is " + area);
   }
```

- 4. Save the program as **ComputeArea.java** in the **CS410Assign1** folder.
- 5. In Windows, search for **cmd** and start up the Command prompt.
- 6. Navigate to the **CS410Assign1** folder using **cd** commands or copy and pasting the path from File Explorer. Type in the 2 commands from the table below:

Command	What command does
javac ComputeArea.java	Compiles the program
java ComputeArea	Runs the program

7. Use 2.5 as the input. You should see the output below. If not, you need to check your program is keyed in correctly. Repeat steps 3 – 7 until the output is correct as shown below:

```
Enter a number for radius: 2.5
The area for the circle of radius 2.5 is 19.6349375
```

- 8. Use Alt-PrtScr to take a screen shot of the window and then paste it into a Word document.
- 9. Upload 3 files to Canvas: the screenshot, **ComputeArea.java** and **ComputeArea.class** by the start of the next class.