

Worksheet 1

1. What differences have you noticed between Java and Python so far?

Use your own words. Feel free to use the internet to search.

2. In Java, write a program that asks for the user's name, then echo their name back.


Example:

```
1 Enter your name: John
2 Your name is: John
```

3. Rewrite the program described above in Python.

4. Identify the error in the following program and how to fix it.

```
1 import java.util.Scanner;
2
3 public class Main {
4     public static void main(String[] args) {
5         Scanner scan = new Scanner(System.in);
6
7         System.out.print("How many pizzas would you like?: ");
8         String pizzasCount = scan.nextLine();
9         System.out.println("You are ordering " + pizzasCount + " pizzas.");
10
11         double costPerPizza = 15.99;
12         double totalCost = pizzasCount * costPerPizza;
13
14         System.out.println("Total cost: " + totalCost);
15         scan.close();
16     }
17 }
```

5. Identify the three problems in the following line of  code:

```
1 string thisIsAString! = "hi"
```

6. Identify why the following program won't run.

Hint: Look very carefully.

```
1 import java.util.Scanner;
2
3 public class Main {
4     public static void notmain(String[] args) {
5         Scanner scan = new Scanner(System.in);
6
7         System.out.print("I'm thinking of a not-so-random number between 1 and 10: ");
8         int guess = scan.nextInt();
9         System.out.println("You have guessed " + guess + ".");
10
11         boolean isCorrect = (guess == 2); // This line is correct.
12
13         System.out.println("The guess was correct?: " + isCorrect);
14         scan.close();
15     }
16 }
```

7. In Java and Python, define a variable for each of the following types with your choice of data

a) int b) String c) double d) char e) boolean