Answers 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.

Possible answers:

- Java tends to be more wordy than Python.
- Java is a "compiled language", Python is an "interpreted language".
- Both Java and Python have modern-day uses.
- 2. In Java, write a program that asks for the user's name, then repeats their name back to them.

```
import java.util.Scanner;
2
3
     public class Main {
        public static void main(String[] args) {
5
             Scanner scan = new Scanner(System.in);
6
7
            System.out.print("Enter your name: ");
8
             String name = scan.nextLine();
             System.out.println("Your name is: " + name);
9
10
             scan.close();
11
12
13
```

3. Rewrite the program described above in Python.

```
name = input("Enter your name: ")
print("Your name is:", name)
```

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

The variable pizzasCount is of type String, but is being treated as a type int in the program.

```
1 String pizzasCount = scan.nextLine(); // Incorrect
1 int pizzasCount = scan.nextInt(); // Correct
```

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

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

- 1. string should be capitalized → String
- 2. The variable name this Is AString! is invalid because it ends with!.
- 3. There is a missing semicolon after "hi". Corrected:

```
1 String thisIsAString = "hi";
```

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

Notice that the main function is called "notmain".

```
public static void notmain(String[] args) { ...
```

It should actually be called "main".

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

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

```
Possible answers (Java):

a) int num = 2;

b) String someString = "some text";

c) double pi = 3.14159;

d) char someCharacter = 'Y';

e) boolean isBool = true;

Possible answers (Python):

a) num = 2

b) some_string = "some text"

c) pi = 3.14159

d) some_char = 'Y'
```

e) is_bool = True