CSCI212 Lab — Quiz #1

Full Name:

EMPLID:

Date:

Score:

1. (a) Set up the Java boilerplate within the scope of the **Main class** below, and include a line that prints ***Hello world!*** to the console.

    ```
    // Main.java
    package Quiz1;

    public class Main{
    ```

    > **Solution:**
    > ```
    >     public static void main(String[] args){
    >         System.out.println("Hello world!");
    >     }
    > ```

    ```
    }
    ```

    (b) Provide the line you would write into the terminal in order to **compile** `Main.java` followed by the line you would write to **execute** it (with respect to the *Quiz1* package).

    > **Solution:**
    > ```
    > javac Quiz1/Main.java
    > java Quiz1/Main
    > ```

    (c) Which additional file is created upon successful compilation?
    (You must provide the exact name of the file.)

    > **Solution:**
    > ```
    > Main.class
    > ```

2. Declare and define the missing **getter** functions underneath the comments of the **Student** class:

```
package Quiz1;
// Student.java

public class Student{
    private String name;
    private int age;
    private String id;
    private double GPA;

    public Student(String name, int age, String id, double GPA){
        this.name = name;
        this.age = age;
        this.id = id;
        this.GPA = GPA;
    }
```

Solution:

```
    public String getName(){
        return this.name;
    }

    public int getAge(){
        return this.age;
    }

    public String getID(){
        return this.id;
    }

    public double getGPA(){
        return this.GPA;
    }
```

```
}
```

3. Write a **static function** within the scope of the class **Main** under the following instructions:

- The function is titled **printStudentArray**
- The function takes **two parameters**:
  - An array of **Student** objects, named **stuArr**
  - An integer **n**, representing the number of students
- The function **iteratively prints** the name of each student in the array (assume the array length is **n**)

```java
// Main.java
package Quiz1;

public class Main{
```

Solution:

```java
    public static void printStudentArray(Student[] stuArr, int n){
        for(int i = 0; i < n; i++){
            System.out.println(stuArr[i].getName());
        }
    }
```

```java
}
```