

Phillip Ball

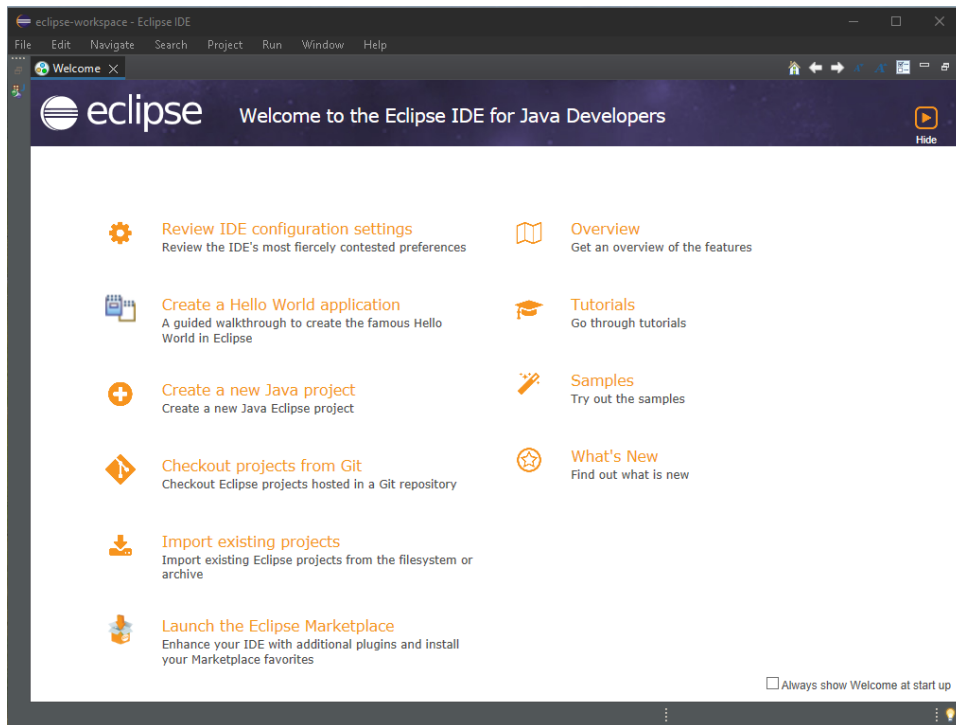
CST-239-O500

Prof. Couch

4/14/2022

CST-239 Activity 1

Part 1: Tools Installation and Validation





The screenshot shows an IDE window titled 'HelloWorld.java'. The code is as follows:

```
1 package app;
2
3 public class HelloWorld {
4
5     private void SayHello(String name)
6     {
7         System.out.println("Hello, my name is " + name);
8     }
9     public static void main(String args[])
10    {
11        HelloWorld helloWorld = new HelloWorld();
12        helloWorld.SayHello("Phillip");
13    }
14 }
15
```

Below the code editor, the 'Console' tab is active, displaying the output: 'Hello, my name is Phillip'. The console also shows the command prompt path: 'C:\Program Files\Java\jdk-18\bin\javaw.exe (Apr 14, 2022, 9:...'.

Part 2: Designing, Coding, and Documenting a Person Class

```
61  *
62  * @return
63  */
64  public static String GetRandomName()
65  {
66      Random random = new Random();
67      int num = random.nextInt(6);
68      switch (num)
69      {
70          case 0: return "Phillip";
71          case 1: return "Ryan";
72          case 2: return "Joey";
73          case 3: return "Pete";
74          case 4: return "Bob";
75          case 5: return "John";
76          case 6: return "Smith";
77      }
78      return null;
79  }
80  /**
81   *
82   * @param args
83   */
84  public static void main(String args[])
85  {
86      Random random = new Random();
87      float sleepTime = random.nextFloat();
88      float sleepFinal = Math.round(sleepTime * 1000);
89      Person person = new Person(random.nextInt(80), GetRandomName(), (float)6.3, 160);
90      person.Sleep(person.name, sleepFinal);
91      person.Wakeup(person.name, sleepFinal);
92  }
93  }
94  }
```

Problems Javadoc Declaration Console X

<terminated> Person [Java Application] C:\Program Files\Java\jdk-18\bin\javaw.exe (Apr 14, 2022, 10:19:13 PM - 10:19:13 PM) [pid: 17312]

Pete is going to bed for 297.0 minutes.

...

Pete woke up after 297.0 minutes of sleep!

This output was displayed from firstly, being inside of the main function, allowing any of the code inside to run on play. Then from the Person constructor I was able to set variables and apply them to a "Person". With that I was able to do what I wanted with the variables, so I added a little bit of randomness to it. Finally printed out a Sleep and Wakeup function that basically just mimics' someone going to bed and waking up.

Part 3: Designing, Coding, and Documenting a Race Car Class

```
Driver [Java Application] C:\Program Files\Java\jdk-18\bin\javaw.exe (Apr 15, 2022, 2:11 PM)
5: Get rid of the rest of the point and start game: 3
3
RaceCars are ready! It is Round 1

Opponents Stats:
Speed: 51
Tires: 6
Engine(s): 2
PSI: 43

Your Stats:
Speed: 50
Tires: 4
Engine(s): 3
PSI: 36

Distance to race: 236
Type anything to start lap 1
1

Player Psi is 36
Opponent Psi is 43

Player's Distance is currently 142 miles!
Opponent's Distance is currently 90 miles!

Player is ahead! With only 94 miles left!
Type anything to start lap 2
1

Player Psi is 36
Opponent Psi is 38

Player's Distance is currently 280 miles!
Opponent's Distance is currently 160 miles!

Player Won the Race by 120 miles!!!
Reward for this race is 2 upgrade points!

Enter '2' to quit, anything else to keep playing!
```

There is no question for this one but I added plenty of comments inside of the code to further explain it. Kind of went overboard on this and most likely off track.

Part 4: Using the Debugger

[illegible]

- ▶ C:\Program Files\Java\jdk-18\bin\javaw.exe (Apr 15, 2022, 1:21:20 AM) [pid: 23656]
- ▼ Driver [Java Application]
 - ▶ C:\Program Files\Java\jdk-18\bin\javaw.exe (Apr 15, 2022, 2:08:46 AM) [pid: 17096]
- ▼ Driver [Java Application]
 - ▶ C:\Program Files\Java\jdk-18\bin\javaw.exe (Apr 15, 2022, 2:10:19 AM) [pid: 4276]
- ▼ Driver [Java Application]
 - ▶ C:\Program Files\Java\jdk-18\bin\javaw.exe (Apr 15, 2022, 2:11:02 AM) [pid: 17264]
- ▼ Driver [Java Application]
 - ▶ C:\Program Files\Java\jdk-18\bin\javaw.exe (Apr 15, 2022, 2:11:42 AM) [pid: 15504]
- ▼ Person [Java Application]
 - ▼ app.Person at localhost:51232
 - ▼ Thread [main] (Suspended)
 - ≡ <obsolete method in<unknown declaring type>>
 - ▶ C:\Program Files\Java\jdk-18\bin\javaw.exe (Apr 15, 2022, 2:32:45 AM) [pid: 25644]
- ▼ Person [Java Application]
 - ▼ app.Person at localhost:51430
 - ▼ Thread [main] (Suspended)
 - ≡ Person.main(String[]) line: 94
 - ▶ C:\Program Files\Java\jdk-18\bin\javaw.exe (Apr 15, 2022, 2:35:24 AM) [pid: 2044]

- ▼ Person [Java Application]
 - ▼ app.Person at localhost:51232
 - ▼ Thread [main] (Suspended)
 - ≡ <obsolete method in<unknown declaring type>>
 - ▶ C:\Program Files\Java\jdk-18\bin\javaw.exe (Apr 15, 2022, 2:32:45 AM) [pid: 25644]
- ▼ Person [Java Application]
 - ▼ app.Person at localhost:51584
 - ▼ Thread [main] (Suspended)
 - ≡ Person.main(String[]) line: 96
 - ▶ C:\Program Files\Java\jdk-18\bin\javaw.exe (Apr 15, 2022, 2:37:14 AM) [pid: 18520]