

Assignment Report for Assignment 02

Course and Section	CSC 215.86
Assignment Name	Assignment 02
Due Date and Time	15 February 2024 @ 11:59pm
First Name and Last Name	Arjun Parujanwala
SFSU Email Account	aparujanwala@sfsu.edu
First Name and Last Name of Teammate	n/a
SFSU Email Account of Teammate	n/a

**PART A****Question Description and Analysis:**

This part of the assignment asks that I go follow a tutorial given in the file manager so that I can learn how to obtain and run code provided in the file manager.

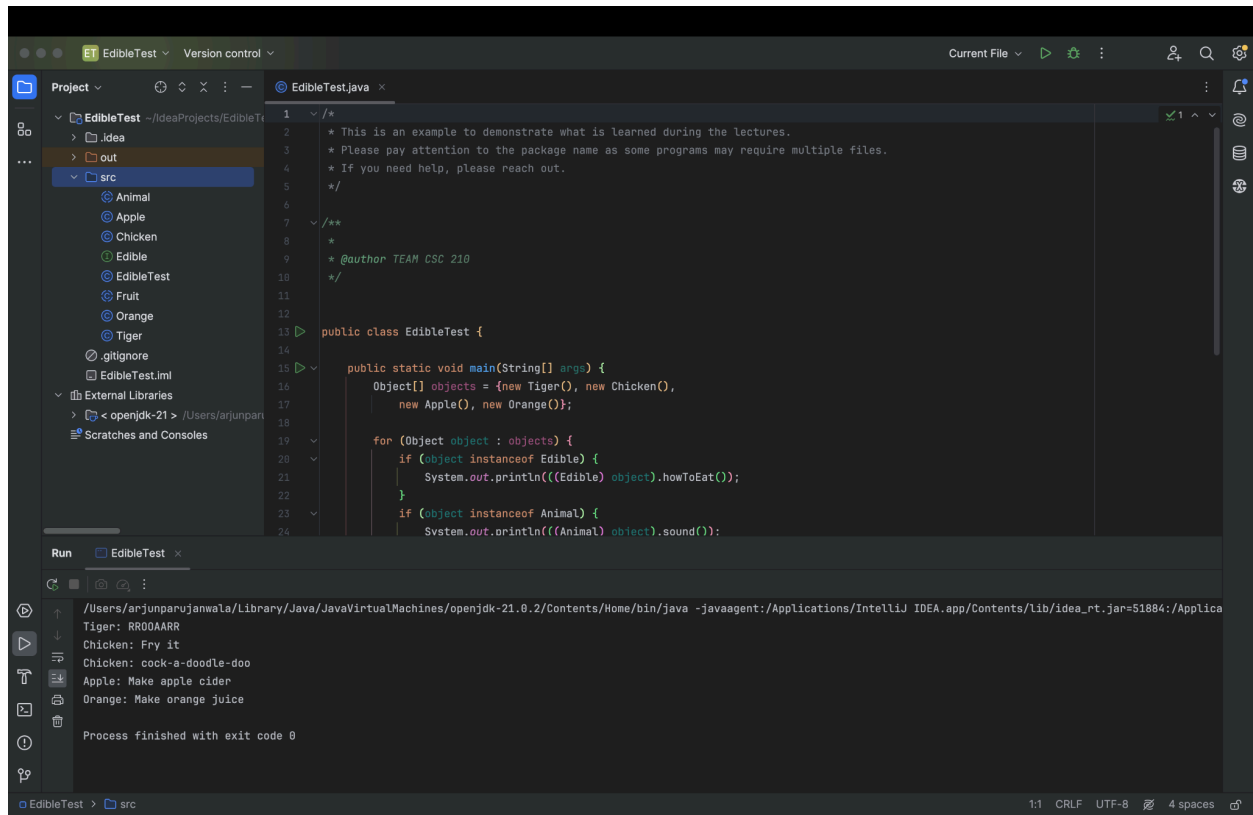
Answer:

This is my answer...

I am using the “EdibleTest” program as an example.

Screenshots of Outputs and Explanation:

These screenshots show what I accomplished...



PART B

Question Description and Analysis:

This part of the assignment asks that...

Answer:

This is my answer...

Buggy Program 01:

1. The first error is a compile error in which there is a missing curly bracelet on line 86 which causes the code to not run at all. I plan to fix this error by simply adding in another curly bracket.
2. The second error is a compile error in which the program can not resolve the symbol “Scanner” because we did not import the scanner utility and I know the information is accurate because the code can not even run. I plan to fix this error by simply importing the scanner utility into the program.
3. The third error is a logic error where the program will ask for the student’s first name but then skip asking the last name and directly go into asking for the student’s grades. I plan to fix this by simply changing the ‘next’ in line 15 with ‘nextLine.’”
4. Another logic error where the system will not even print what letter grade I got so in order to fix this, I simply just have to move the line of code out of the if statement so that it prints no matter what.
5. A runtime error is that in the print statement that supposedly prints out the student’s grades has too many arguments and a quick fix to this is to simply delete the additional argument.

Buggy Program 02:

1. The first error is a compile error where lines 20, 24 and 27 cannot be referenced from a static context and I simply just need to make the scanner input in line 5 static.
2. The second error is another compile error where the program asks us to input a first number but the input asks for a double but returns an integer. To fix this we just need to change the integer to double.

3. The third error is another compile error where the if statement is missing a curly bracket on line 36 and in order to fix this I simply plan on putting the curly bracket in.
4. The fourth error is ANOTHER compile error where there are just too many curly brackets. There are 2 extras on line 66 and line 159 so all I have to do is simply remove them.
5. Then we have a logic error where the double answer = 0; is completely unnecessary so all I have to do is remove the '= 0' and everything should still run perfectly.

Reflection: A debugging technique I have used is to simply read the problem given by the IDE and then quickly fix all of them to complete compile and runtime errors. Then, I would read through the whole program and look through the desired output examples and if the output does not match the desired output, then that would mean there is a logic error. Based on the output, I would go to the line that I assume is the problem and fix them.

Screenshots of Outputs and Explanation:

These screenshots show what I accomplished...

PART C

Question Description and Analysis:

This part of the assignment asks that...

I download NetBeans and create a program that displays a list of the courses I am currently taking.

Answer:

This is my answer...

1. I simply just hovered the pointer onto files and clicked “New Project”
2. I copied the code.
3. Hold, highlight, command c and command v.

Screenshots of Outputs and Explanation:

These screenshots show what I accomplished...

The screenshot shows an IDE with the file `ProjectHelloWorldPro.java` open. The code is as follows:

```
1  //=====
2  //
3  // File: ProjectHelloWorldPro
4  // By: Arjun Parujanwala
5  // Date: 02-02-2024
6  //
7  // Description: Hello World.
8  //
9  //=====
10 package com.mycompany.projecthelloworldpro;
11
12 /**
13  *
14  * @author arjunparujanwala
15  */
16 public class ProjectHelloWorldPro {
17
18     public static void main(String[] args) {
19         System.out.println("Hello World! Discussion Sections are here!!\n" +
20             "Course: CSC 215.TA and CSC 215.\n" +
21             "Student: Arjun Parujanwala" +
22             "Teamate: Troy Mueller\n" +
23             "Assignment #: 01\n" +
24             "Due Date & Time: 02-05-2024 at 11:59 PM\n" +
25             "SFSU's motto: 'Experientia Docet' means Experience Teaches\n");
26     }
27 }
28
```

The output window shows the following text:

```
Due Date & Time: 02-05-2024 at 11:59 PM
SFSU's motto: 'Experientia Docet' means Experience Teaches
BUILD SUCCESS
Total time: 1.643 s
Finished at: 2024-02-15T17:48:19-08:00
```

The screenshot shows an IDE with the file `MyCoursesThisSemester.java` open. The code is as follows:

```
1  //=====
2  // Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to change this license
3  //
4  //
5  package com.mycompany.mycoursesthissemester;
6  import java.util.ArrayList;
7  /**
8  *
9  * @author arjunparujanwala
10 */
11 public class MyCoursesThisSemester {
12     public static void main(String[] args) {
13         // Create an ArrayList to store college classes
14         ArrayList<String> collegeClasses = new ArrayList<>();
15
16         // Add classes to the list
17         collegeClasses.add("MATH 227");
18         collegeClasses.add("CSC 216");
19         collegeClasses.add("PHYS 228");
20         collegeClasses.add("PHYS 222");
21         collegeClasses.add("ENG 116");
22         collegeClasses.add("RRS 110");
23
24         // Print the list of college classes
25         System.out.println("List of College Classes:");
26         for (String className : collegeClasses) {
27             System.out.println(className);
28         }
29     }
30 }
31
```

The output window shows the following text:

```
Compiling 1 source file with javac [debug target 21] to target/classes
--- exec:3.1.0:exec (default-cli) @ MyCoursesThisSemester ---
List of College Classes:
MATH 227
CSC 216
PHYS 228
PHYS 222
ENG 116
RRS 110
BUILD SUCCESS
Total time: 1.706 s
Finished at: 2024-02-15T16:57:46-08:00
```

PART D

Question Description and Analysis:

This part of the assignment asks that...

I download Eclipse and copy the HelloWorldPro.java file onto it.

Answer:

This is my answer...

1. File > New > Java Project
2. I copied the code.
3. Copy and paste.

Screenshots of Outputs and Explanation:

These screenshots show what I accomplished...

