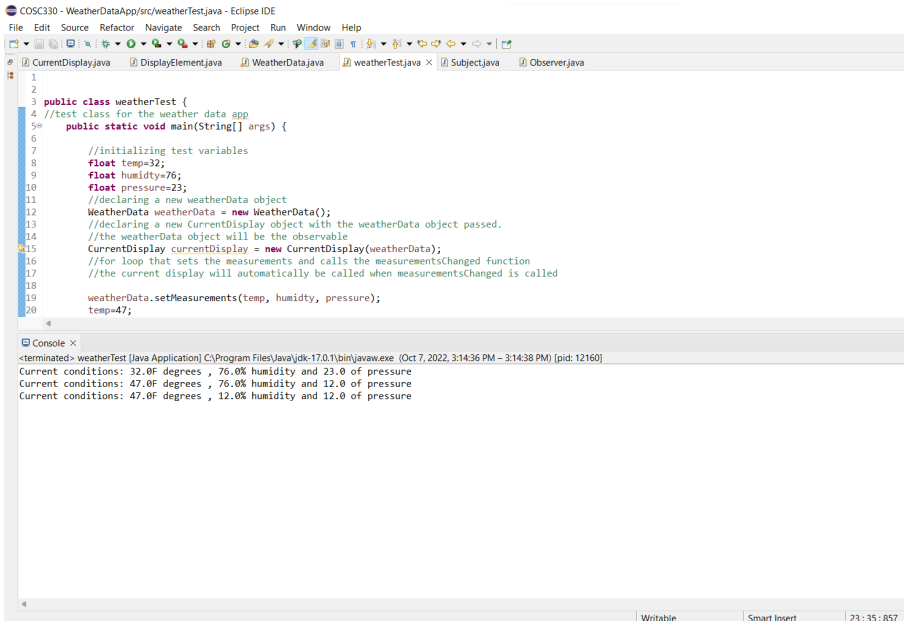
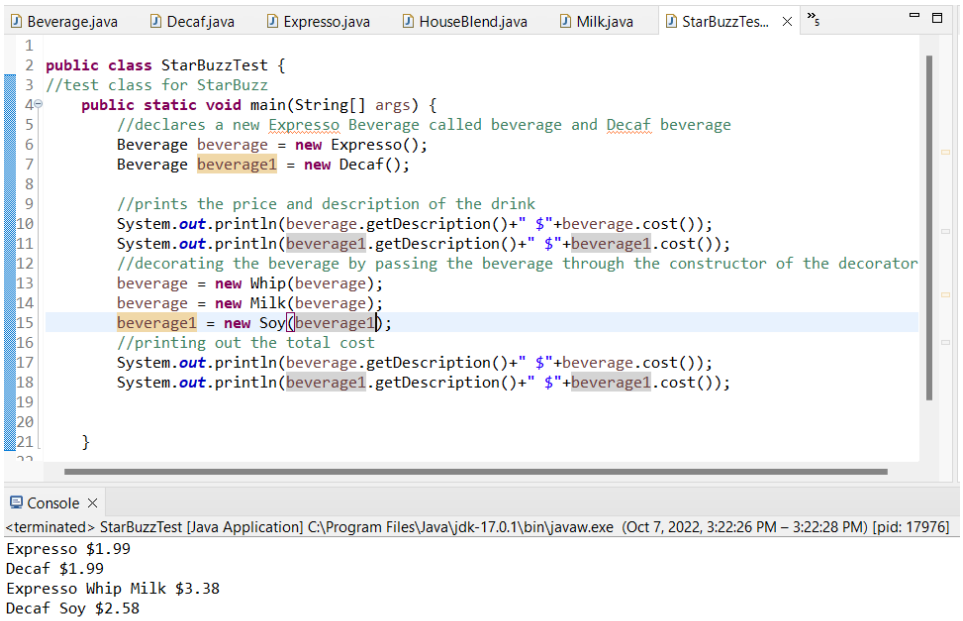
Weather Data Application Output Screenshot:



StarBuzzCafe Output ScreenShot:



Employee Output Screenshot:

Decaf.java | Expresso.java | HouseBlend.java | Milk.java | StarBuzzTes... | EmployeeTes...

```
2  public class EmployeeTest {
3
4      public static void main(String[] args) {
5  //test class for the Employee problem
6
7          //declaring a new employee object and setting parameters
8          Employee employee1 = new EmployeeImpl();
9          Date Startdate = new Date("7/12/2000");
10         Date Enddate = new Date("10/6/2022");
11         employee1.setName(" Cole Nussear ");
12
13         //declaring a new manager object and passing through the employee object to make the emplo
14         Manager manager1 = new Manager(employee1);
15         //calling manager functions
16         manager1.assignTask();
17         manager1.createRequirements();
18         //calling the employeeDecorator functions
19         manager1.join(Startdate);
20         manager1.terminate(Enddate);
21
22         employee1.setName(" John Jones");
```

Console

```
<terminated> EmployeeTest [Java Application] C:\Program Files\Java\jdk-17.0.1\bin\javaw.exe  (Oct 7, 2022, 3:24:33 PM – 3:24:33 PM) [pid: 2406
Cole Nussear is assigning tasks
Cole Nussear  is creating required documents
Cole Nussear  joined on 7/12/2000
Cole Nussear  was terminated on 10/6/2022
John Jones is motivating his team
John Jones is planning
```

Application Output Screenshot:

```
1
2  public class ApplicationTest {
3  //test class to test the Application
4      public static void main(String[] args) {
5  //declaring a new application class GPA,GRE,TOEFL
6      Application anApp = new Application(3.7,3.4,2.3);
7  //declaring a new registrar class
8      Registrar reg = new Registrar();
9
10 //running the first eval by declaring a new GPAEval and calling the eval function using reg
11     System.out.println("Running First Eval");
12     GPAEval aGPAEval = new GPAEval();
13
14     reg.evaluate(anApp, aGPAEval);
15
16     //running the second eval by declaring a new GREEval with a new GPAEval being passed through a
17     System.out.println("Running Second Eval");
18     GREEval aGREEval = new  GREEval(new GPAEval());
19     reg.evaluate(anApp, aGREEval);
20
21     //running the third eval by declaring a new TOEFLEval with a new GPAEval being passed through
```

Console

```
<terminated> ApplicationTest [Java Application] C:\Program Files\Java\jdk-17.0.1\bin\javaw.exe  (Oct 7, 2022, 3:26:24 PM – 3:26:24 PM) [pid:
Running First Eval
GPAEval.evaluate called
Running Second Eval
GPAEval.evaluate called
GREEval.evaluate called
Running Third Eval
GPAEval.evaluate called
TOEFLEval.evaluate called
Running Fourth Eval
GPAEval.evaluate called
GREEval.evaluate called
TOEFLEval.evaluate called
```

Singleton Pattern Output:

```
1
2  public class SingletonTest {
3
4      public static void main(String[] args) {
5          //test class for the singleton
6
7          //declaring a SIngleton object by calling the get instance function
8          Singleton s = Singleton.getInstance();
9
10     }
11
12 }
13
```

Problems Javadoc Declaration Console Coverage

<terminated> SingletonTest [Java Application] C:\Program Files\Java\jdk-17.0.1\bin\javaw.exe (Oct 7, 2022, 10:27:15 AM – 10:27:15 AM) [pid: 1292]

```
instance is null, a new Singl<terminated> SingletonTest [Java Application] C:\Program Files\Java\jdk-17.0.1\bin\javaw.exe (Oct 7, 2022
```

SingletonGUI output:

```
1 import java.awt.*;
4
5  //class MyFrame extends JFrame
6  public class MyFrame extends JFrame {
7
8      //declaring two buttons for the frame
9      JButton jButton1 = new JButton();
10     JButton jButton2 = new JButton();
11
12     //constructor for the myFrame class, just calls the init function
13     public MyFrame() {
14         init();
15     }
16
17     //test class that declares a new MyFrame and sets the visibility to true
18     public static void main(String[] args) {
19         MyFrame frame = new MyFrame();
20         frame.setSize(300,250);
21         frame.setVisible(true);
22
23     }
```

Console

MyFrame [Java Appli

Singleton Frame. From Button 1 TimeStamp: 16651708534...

Show Singleton Frame

Show the same Singleton Frame