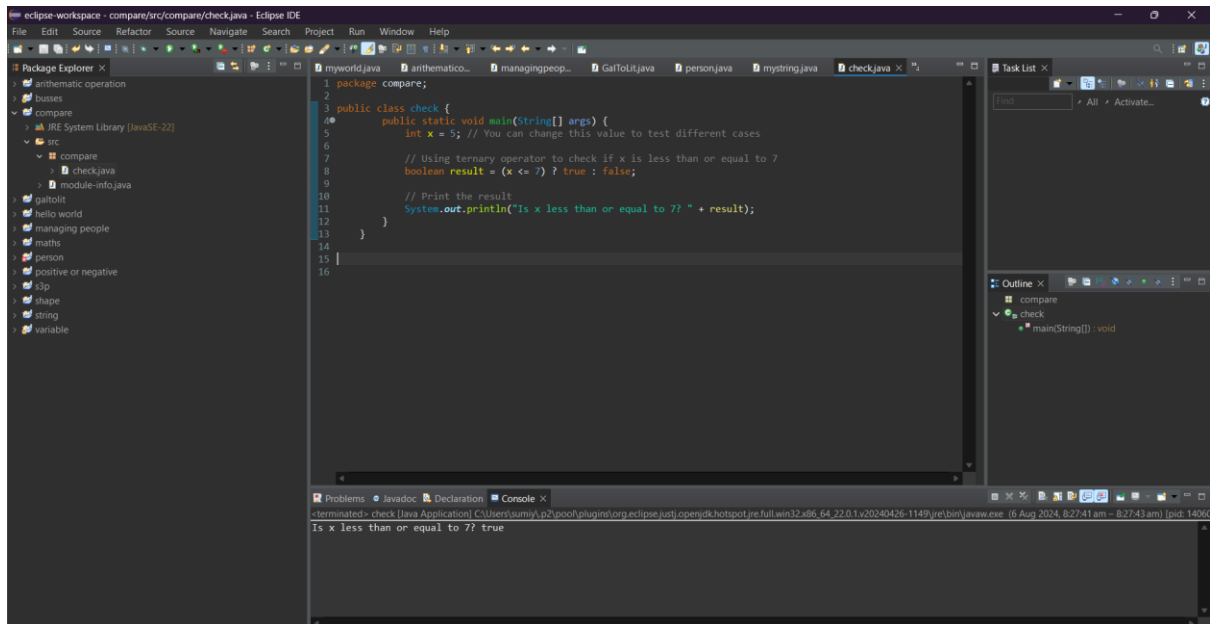
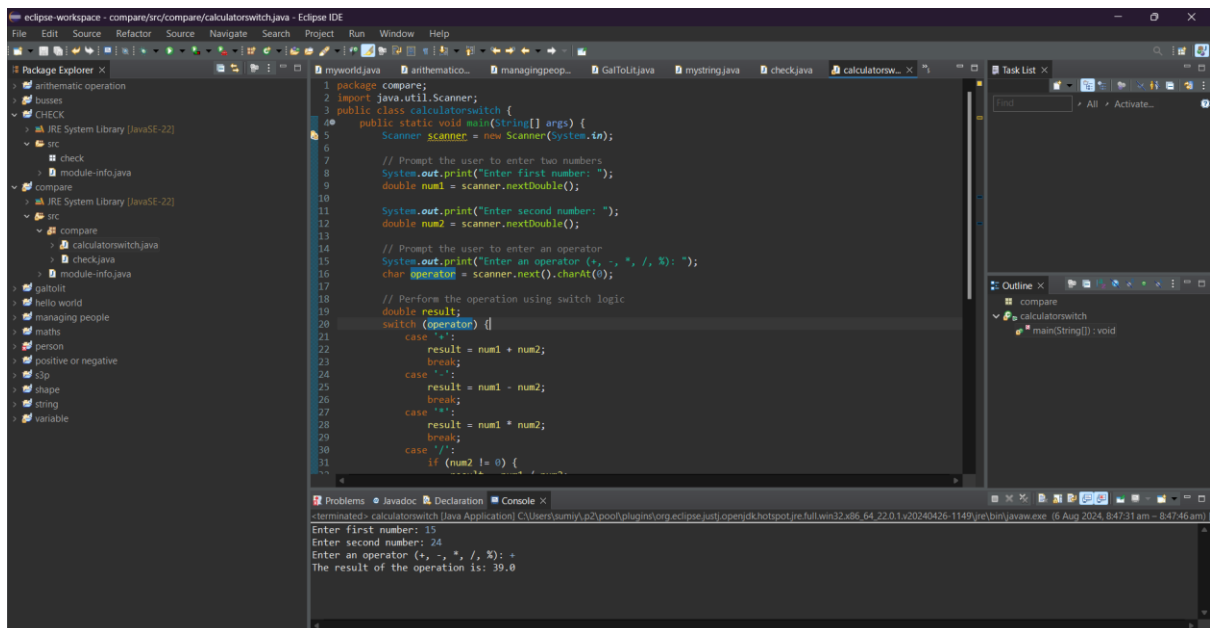


JF SECTION 5.1 PRACTICE

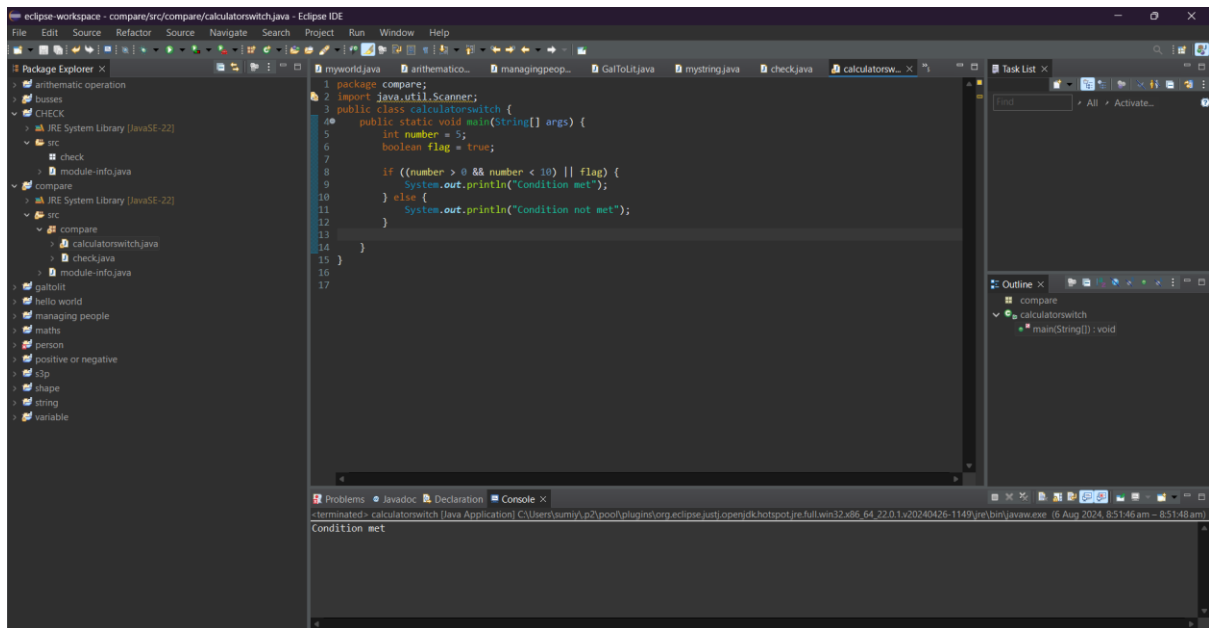
1.



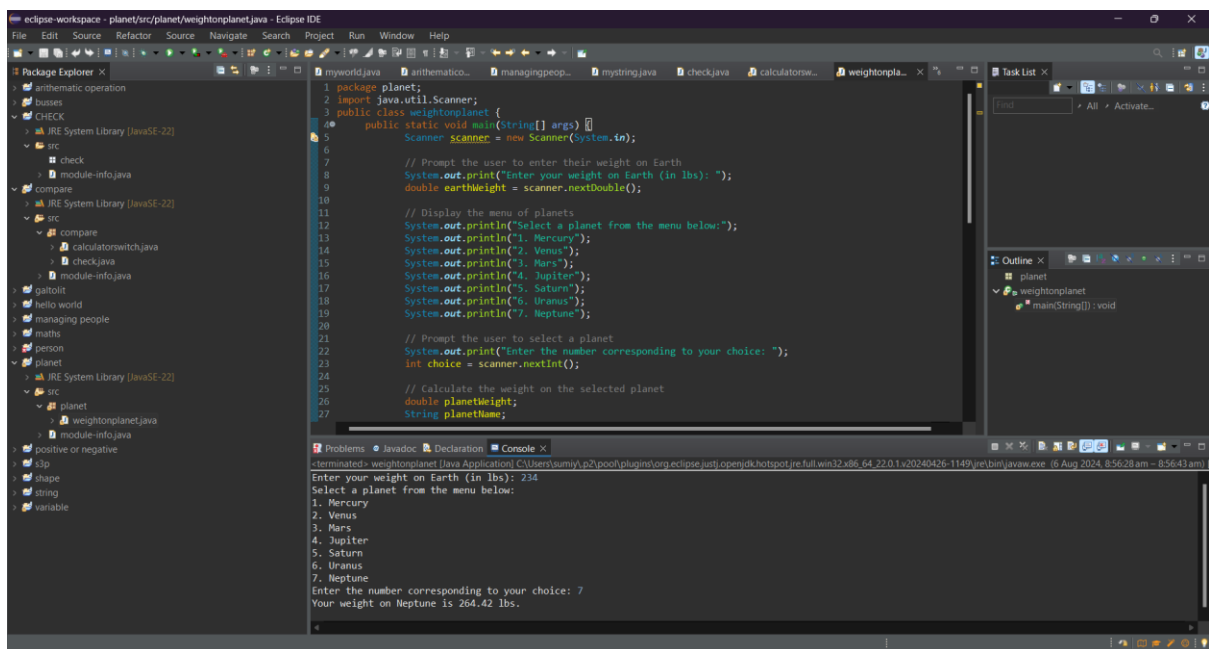
2.



3.



4.



5.

```
1 package student;
2 import java.util.Scanner;
3 public class mountuniversityadmission {
4     public static void main(String[] args) {
5         Scanner scanner = new Scanner(System.in);
6
7         // Prompt user for their details
8         System.out.print("Enter the student's GPA: ");
9         double gpa = scanner.nextDouble();
10
11         System.out.print("Enter the student's SAT score: ");
12         int satScore = scanner.nextInt();
13
14         System.out.print("Is the student a valedictorian or salutatorian of a school of 1400 or more students? ");
15         String status = scanner.next().toLowerCase();
16
17         System.out.print("Enter the total number of students at the student's school: ");
18         int totalStudents = scanner.nextInt();
19
20         // Check eligibility
21         boolean isEligible = (status.equals("yes") && totalStudents >= 1400) ||
22             (gpa >= 4.0 && satScore >= 1100) ||
23             (gpa >= 3.5 && satScore >= 1300) ||
24             (gpa >= 3.0 && satScore >= 1500);
25
26         // Print result
27         if (isEligible) {
```

Console Output:

```
Enter the student's GPA: 9.0
Enter the student's SAT score: 234
Is the student a valedictorian or salutatorian of a school of 1400 or more students? (yes/no): yes
Enter the total number of students at the student's school: 200
The student is not eligible for admission to Mountville University.
```

6.

```
5 public static void main(String[] args) {
6     double average;
7     int daysAbsent;
8     boolean exempt = false;
9     Scanner reader = new Scanner(System.in);
10
11     System.out.println("This program will determine if you can get out of the final exam.");
12     System.out.println("Please answer the following questions.");
13     System.out.print("What is your average in the class? ");
14     average = reader.nextDouble();
15
16     System.out.print("How many class lectures have you missed? ");
17     daysAbsent = reader.nextInt();
18
19     // Determine exemption status using a single if statement
20     exempt = (average >= 90 && daysAbsent <= 3) || (average >= 80 && daysAbsent <= 0);
21
22     if (exempt) {
23         System.out.println("Congratulations! You are exempt from the final exam.");
24     } else {
25         System.out.println("You are not exempt from the final exam.");
26     }
27
28     reader.close();
29 }
30 }
```

Console Output:

```
This program will determine if you can get out of the final exam.
Please answer the following questions.
What is your average in the class? 78
How many class lectures have you missed? 4
You are not exempt from the final exam.
```

7.

