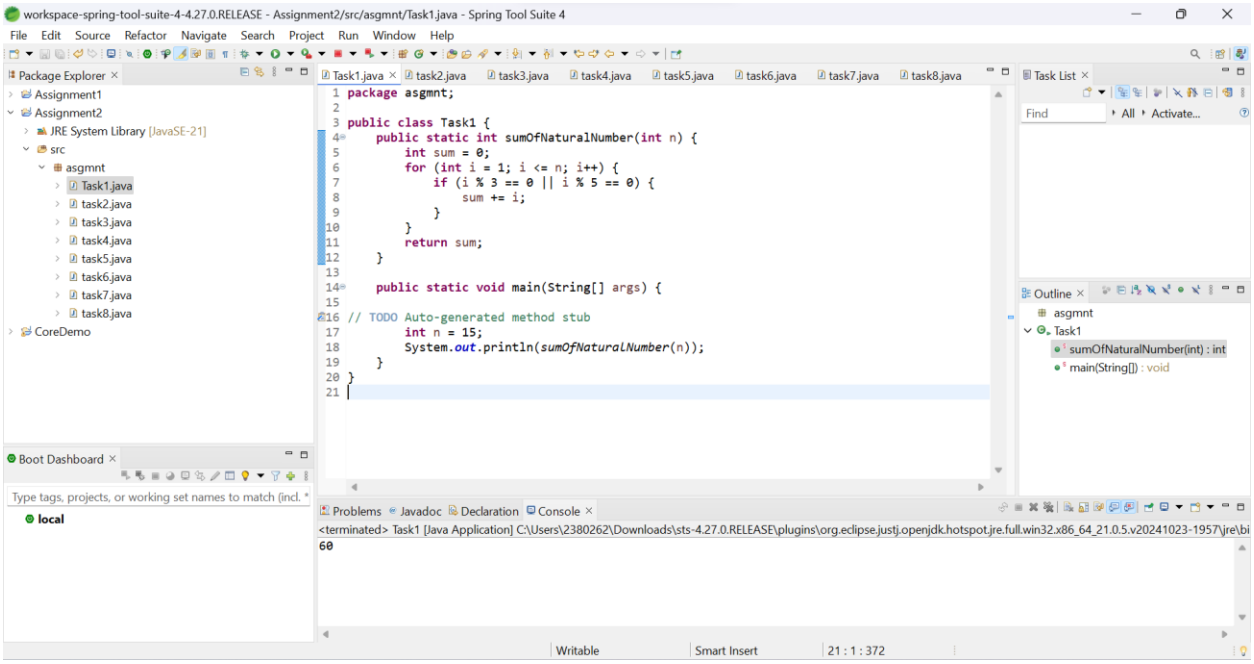
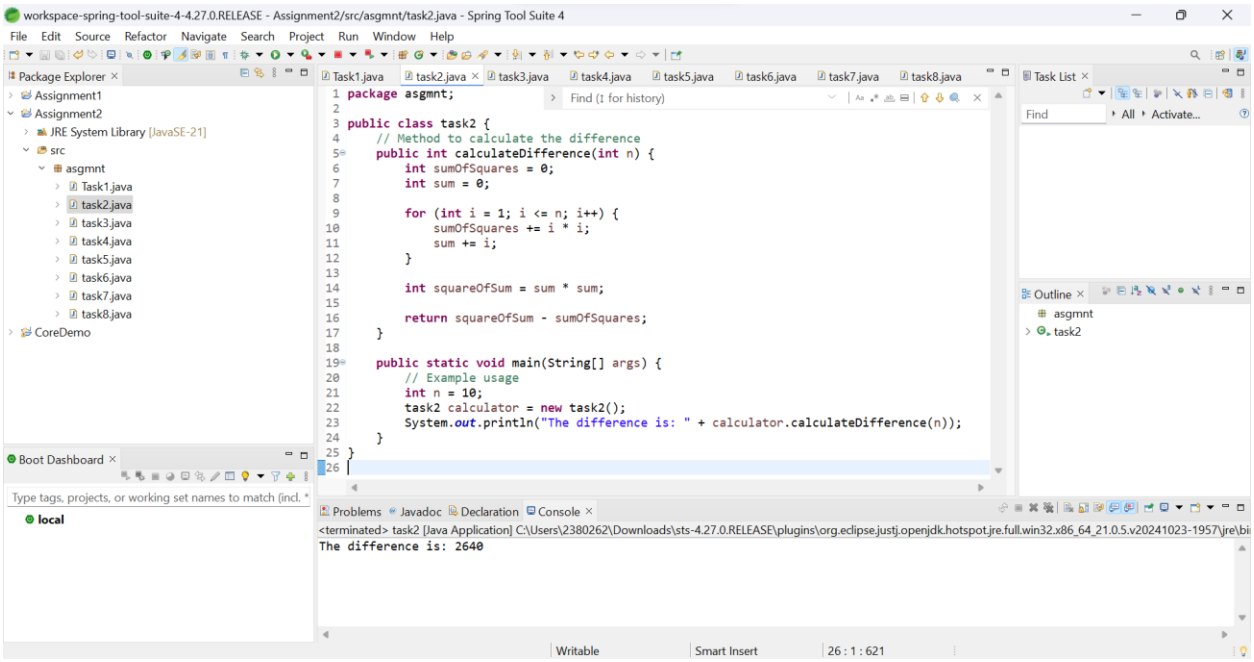
Thilak Rai – 2380262

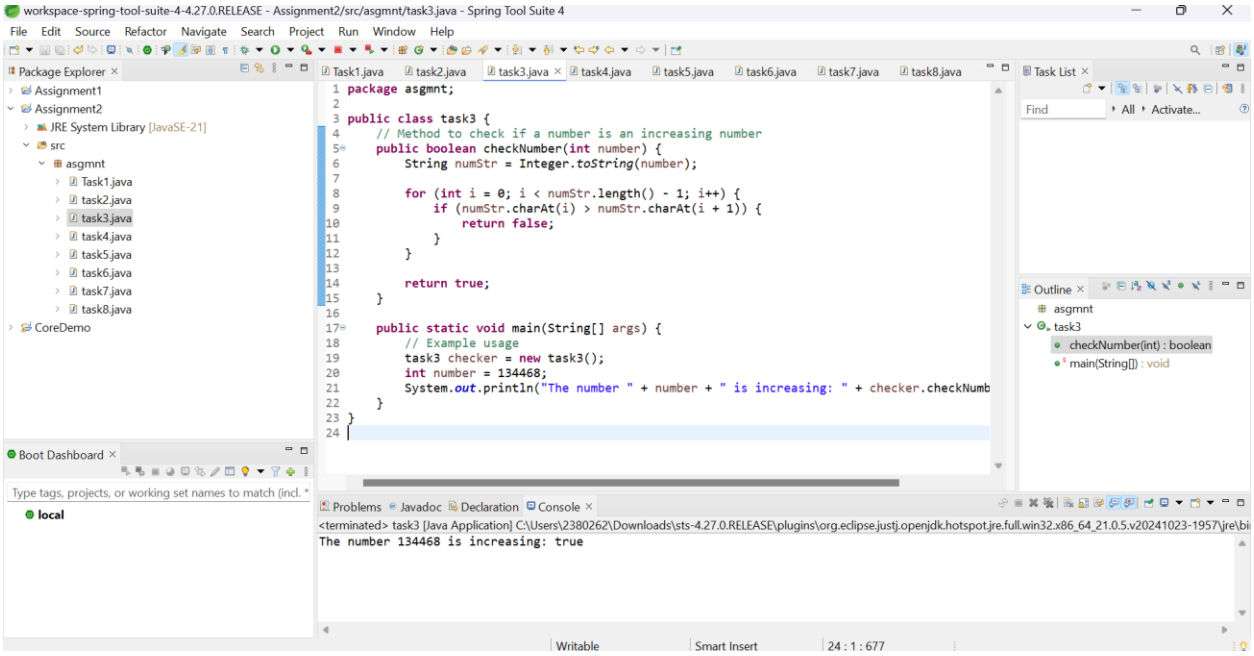
Task 1:



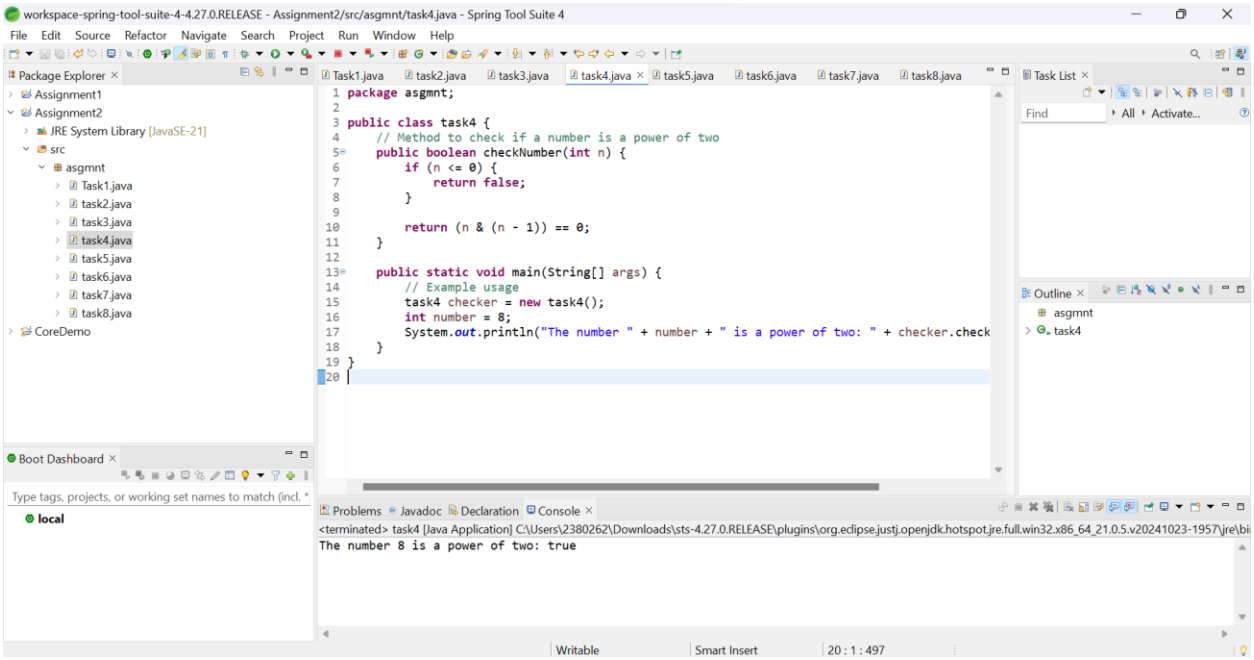
Task 2:



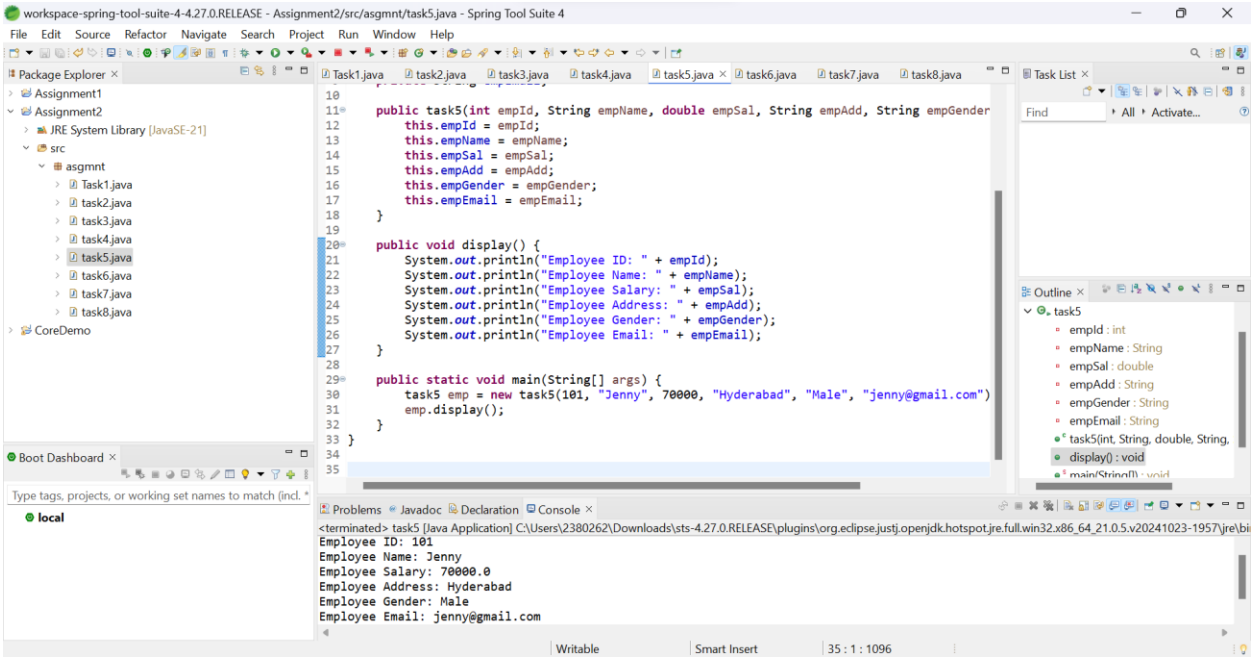
Task 3:


workspace-spring-tool-suite-4-4.27.0.RELEASE - Assignment2/src/asgmnt/task3.java - Spring Tool Suite 4
File Edit Source Refactor Navigate Search Project Run Window Help
Package Explorer
Assignment1
Assignment2
JRE System Library [JavaSE-21]
src
asgmnt
Task1.java
task2.java
task3.java
task4.java
task5.java
task6.java
task7.java
task8.java
CoreDemo
Boot Dashboard
local
Task1.java task2.java task3.java task4.java task5.java task6.java task7.java task8.java
1 package asgmnt;
2
3 public class task3 {
4 // Method to check if a number is an increasing number
5 public boolean checkNumber(int number) {
6 String numStr = Integer.toString(number);
7
8 for (int i = 0; i < numStr.length() - 1; i++) {
9 if (numStr.charAt(i) > numStr.charAt(i + 1)) {
10 return false;
11 }
12 }
13
14 return true;
15 }
16
17 public static void main(String[] args) {
18 // Example usage
19 task3 checker = new task3();
20 int number = 134468;
21 System.out.println("The number " + number + " is increasing: " + checker.checkNumb
22 }
23 }
24
Task List
Find
All
Activate...
Outline
asgmnt
task3
checkNumber(int) : boolean
main(String[]) : void
Problems Javadoc Declaration Console
<terminated> task3 [Java Application] C:\Users\2380262\Downloads\sts-4.27.0.RELEASE\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_21.0.5.v20241023-1957\jre\bi
The number 134468 is increasing: true
Writable
Smart Insert
24 : 1 : 677

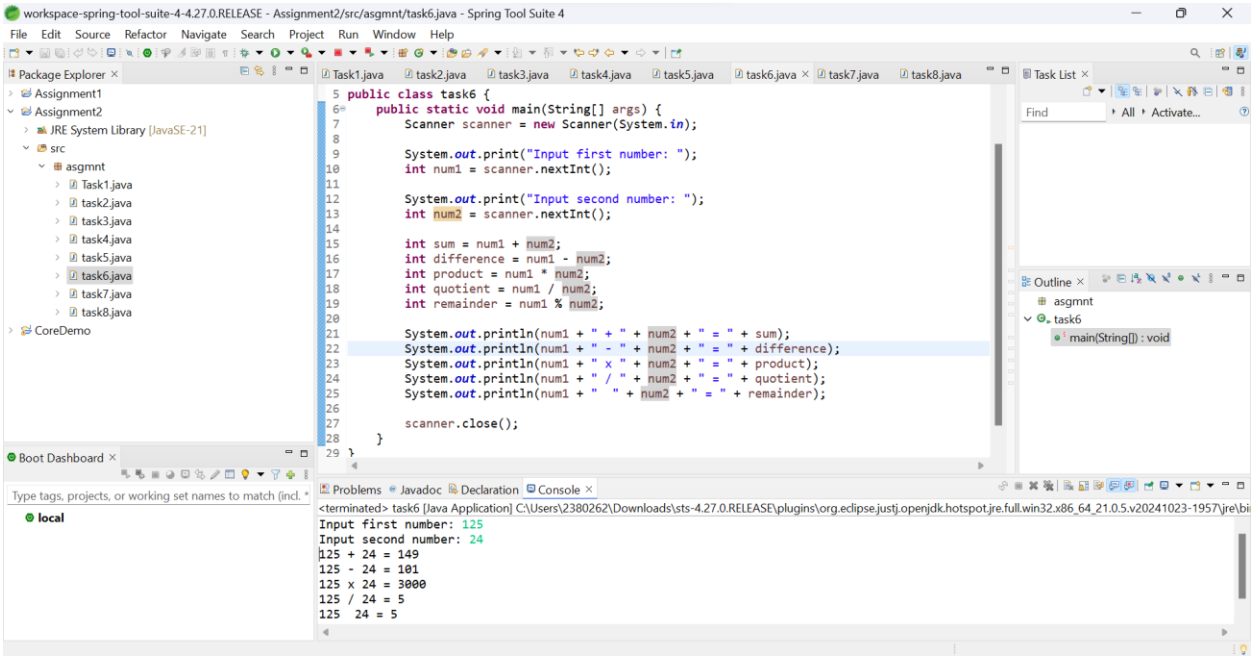
Task 4:


workspace-spring-tool-suite-4-4.27.0.RELEASE - Assignment2/src/asgmnt/task4.java - Spring Tool Suite 4
File Edit Source Refactor Navigate Search Project Run Window Help
Package Explorer
Assignment1
Assignment2
JRE System Library [JavaSE-21]
src
asgmnt
Task1.java
task2.java
task3.java
task4.java
task5.java
task6.java
task7.java
task8.java
CoreDemo
Boot Dashboard
local
Task1.java task2.java task3.java task4.java task5.java task6.java task7.java task8.java
1 package asgmnt;
2
3 public class task4 {
4 // Method to check if a number is a power of two
5 public boolean checkNumber(int n) {
6 if (n <= 0) {
7 return false;
8 }
9
10 return (n & (n - 1)) == 0;
11 }
12
13 public static void main(String[] args) {
14 // Example usage
15 task4 checker = new task4();
16 int number = 8;
17 System.out.println("The number " + number + " is a power of two: " + checker.check
18 }
19 }
20
Task List
Find
All
Activate...
Outline
asgmnt
task4
Problems Javadoc Declaration Console
<terminated> task4 [Java Application] C:\Users\2380262\Downloads\sts-4.27.0.RELEASE\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_21.0.5.v20241023-1957\jre\bi
The number 8 is a power of two: true
Writable
Smart Insert
20 : 1 : 497

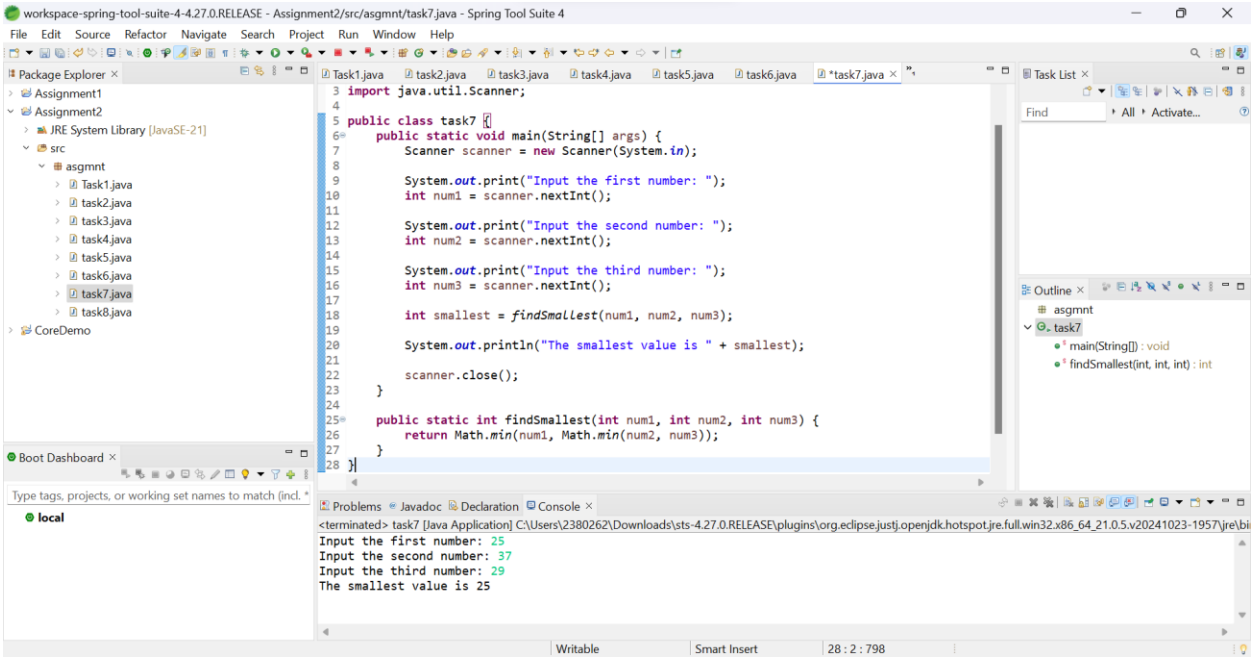
Task 5:


workspace-spring-tool-suite-4-4.27.0.RELEASE - Assignment2/src/asgmnt/task5.java - Spring Tool Suite 4
File Edit Source Refactor Navigate Search Project Run Window Help
Package Explorer
Assignment1
Assignment2
JRE System Library [JavaSE-21]
src
asgmnt
Task1.java
task2.java
task3.java
task4.java
task5.java
task6.java
task7.java
task8.java
CoreDemo
Boot Dashboard
local
Task1.java task2.java task3.java task4.java task5.java task6.java task7.java task8.java
public task5(int empId, String empName, double empSal, String empAdd, String empGender
this.empId = empId;
this.empName = empName;
this.empSal = empSal;
this.empAdd = empAdd;
this.empGender = empGender;
this.empEmail = empEmail;
public void display() {
System.out.println("Employee ID: " + empId);
System.out.println("Employee Name: " + empName);
System.out.println("Employee Salary: " + empSal);
System.out.println("Employee Address: " + empAdd);
System.out.println("Employee Gender: " + empGender);
System.out.println("Employee Email: " + empEmail);
public static void main(String[] args) {
task5 emp = new task5(101, "Jenny", 70000, "Hyderabad", "Male", "jenny@gmail.com")
emp.display();
}
Task List
Find All Activate...
Outline
task5
empId : int
empName : String
empSal : double
empAdd : String
empGender : String
empEmail : String
task5(int, String, double, String,
display() : void
Problems Javadoc Declaration Console
<terminated> task5 [Java Application] C:\Users\2380262\Downloads\sts-4.27.0.RELEASE\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_21.0.5.v20241023-1957\jre\bi
Employee ID: 101
Employee Name: Jenny
Employee Salary: 70000.0
Employee Address: Hyderabad
Employee Gender: Male
Employee Email: jenny@gmail.com
Writable
Smart Insert
35 : 1 : 1096

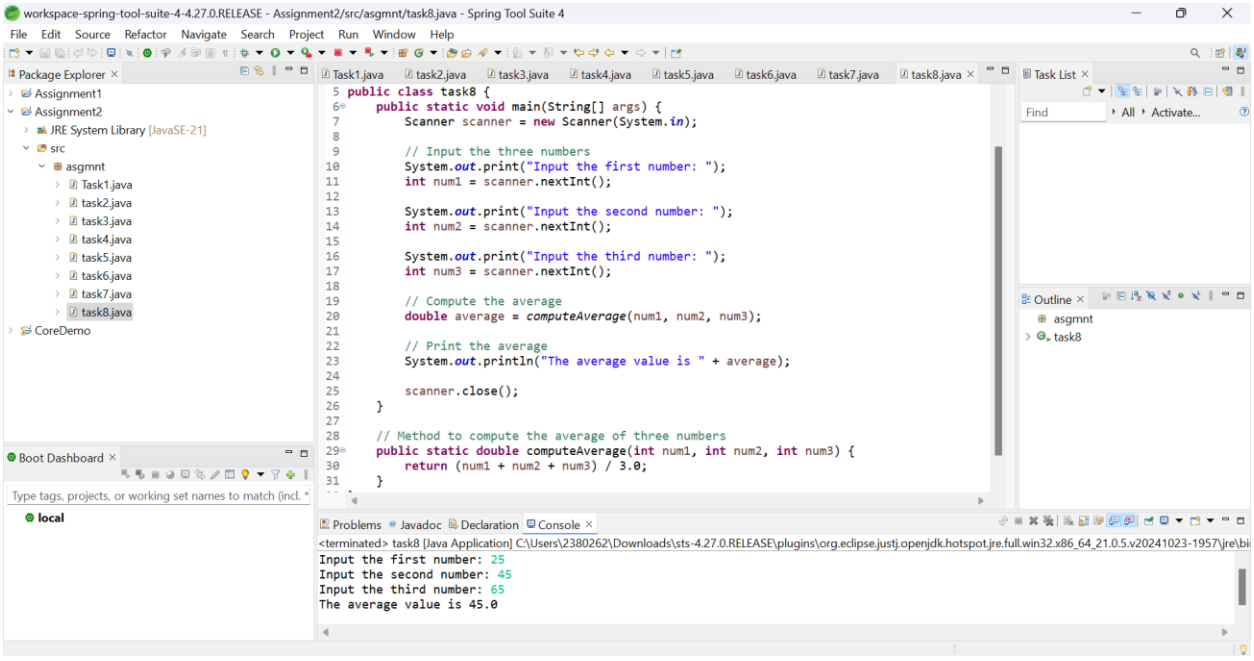
Task 6:


workspace-spring-tool-suite-4-4.27.0.RELEASE - Assignment2/src/asgmnt/task6.java - Spring Tool Suite 4
File Edit Source Refactor Navigate Search Project Run Window Help
Package Explorer
Assignment1
Assignment2
JRE System Library [JavaSE-21]
src
asgmnt
Task1.java
task2.java
task3.java
task4.java
task5.java
task6.java
task7.java
task8.java
CoreDemo
Boot Dashboard
local
Task1.java task2.java task3.java task4.java task5.java task6.java task7.java task8.java
public class task6 {
public static void main(String[] args) {
Scanner scanner = new Scanner(System.in);
System.out.print("Input first number: ");
int num1 = scanner.nextInt();
System.out.print("Input second number: ");
int num2 = scanner.nextInt();
int sum = num1 + num2;
int difference = num1 - num2;
int product = num1 * num2;
int quotient = num1 / num2;
int remainder = num1 % num2;
System.out.println(num1 + " + " + num2 + " = " + sum);
System.out.println(num1 + " - " + num2 + " = " + difference);
System.out.println(num1 + " x " + num2 + " = " + product);
System.out.println(num1 + " / " + num2 + " = " + quotient);
System.out.println(num1 + " " + num2 + " = " + remainder);
scanner.close();
}
}
Task List
Find All Activate...
Outline
asgmnt
task6
main(String[]) : void
Problems Javadoc Declaration Console
<terminated> task6 [Java Application] C:\Users\2380262\Downloads\sts-4.27.0.RELEASE\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_21.0.5.v20241023-1957\jre\bi
Input first number: 125
Input second number: 24
125 + 24 = 149
125 - 24 = 101
125 x 24 = 3000
125 / 24 = 5
125 24 = 5

Task 7:


workspace-spring-tool-suite-4-4.27.0.RELEASE - Assignment2/src/asgmnt/task7.java - Spring Tool Suite 4
File Edit Source Refactor Navigate Search Project Run Window Help
Package Explorer
Assignment1
Assignment2
JRE System Library [JavaSE-21]
src
asgmnt
Task1.java
task2.java
task3.java
task4.java
task5.java
task6.java
task7.java
task8.java
CoreDemo
Boot Dashboard
local
Task1.java task2.java task3.java task4.java task5.java task6.java *task7.java
3 import java.util.Scanner;
5 public class task7 {
6 public static void main(String[] args) {
7 Scanner scanner = new Scanner(System.in);
9 System.out.print("Input the first number: ");
10 int num1 = scanner.nextInt();
12 System.out.print("Input the second number: ");
13 int num2 = scanner.nextInt();
15 System.out.print("Input the third number: ");
16 int num3 = scanner.nextInt();
18 int smallest = findSmallest(num1, num2, num3);
20 System.out.println("The smallest value is " + smallest);
22 scanner.close();
23 }
25 public static int findSmallest(int num1, int num2, int num3) {
26 return Math.min(num1, Math.min(num2, num3));
27 }
28 }
Task List
Find All Activate...
Outline
asgmnt
task7
main(String[]) : void
findSmallest(int, int, int) : int
Problems Javadoc Declaration Console
<terminated> task7 [Java Application] C:\Users\2380262\Downloads\sts-4.27.0.RELEASE\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_21.0.5.v20241023-1957\jre\bi
Input the first number: 25
Input the second number: 37
Input the third number: 29
The smallest value is 25
Writable
Smart Insert
28 : 2 : 798

Task 8:


workspace-spring-tool-suite-4-4.27.0.RELEASE - Assignment2/src/asgmnt/task8.java - Spring Tool Suite 4
File Edit Source Refactor Navigate Search Project Run Window Help
Package Explorer
Assignment1
Assignment2
JRE System Library [JavaSE-21]
src
asgmnt
Task1.java
task2.java
task3.java
task4.java
task5.java
task6.java
task7.java
task8.java
CoreDemo
Boot Dashboard
local
Task1.java task2.java task3.java task4.java task5.java task6.java task7.java task8.java
5 public class task8 {
6 public static void main(String[] args) {
7 Scanner scanner = new Scanner(System.in);
9 // Input the three numbers
10 System.out.print("Input the first number: ");
11 int num1 = scanner.nextInt();
13 System.out.print("Input the second number: ");
14 int num2 = scanner.nextInt();
16 System.out.print("Input the third number: ");
17 int num3 = scanner.nextInt();
19 // Compute the average
20 double average = computeAverage(num1, num2, num3);
22 // Print the average
23 System.out.println("The average value is " + average);
25 scanner.close();
26 }
28 // Method to compute the average of three numbers
29 public static double computeAverage(int num1, int num2, int num3) {
30 return (num1 + num2 + num3) / 3.0;
31 }
Task List
Find All Activate...
Outline
asgmnt
task8
Problems Javadoc Declaration Console
<terminated> task8 [Java Application] C:\Users\2380262\Downloads\sts-4.27.0.RELEASE\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_21.0.5.v20241023-1957\jre\bi
Input the first number: 25
Input the second number: 45
Input the third number: 65
The average value is 45.0