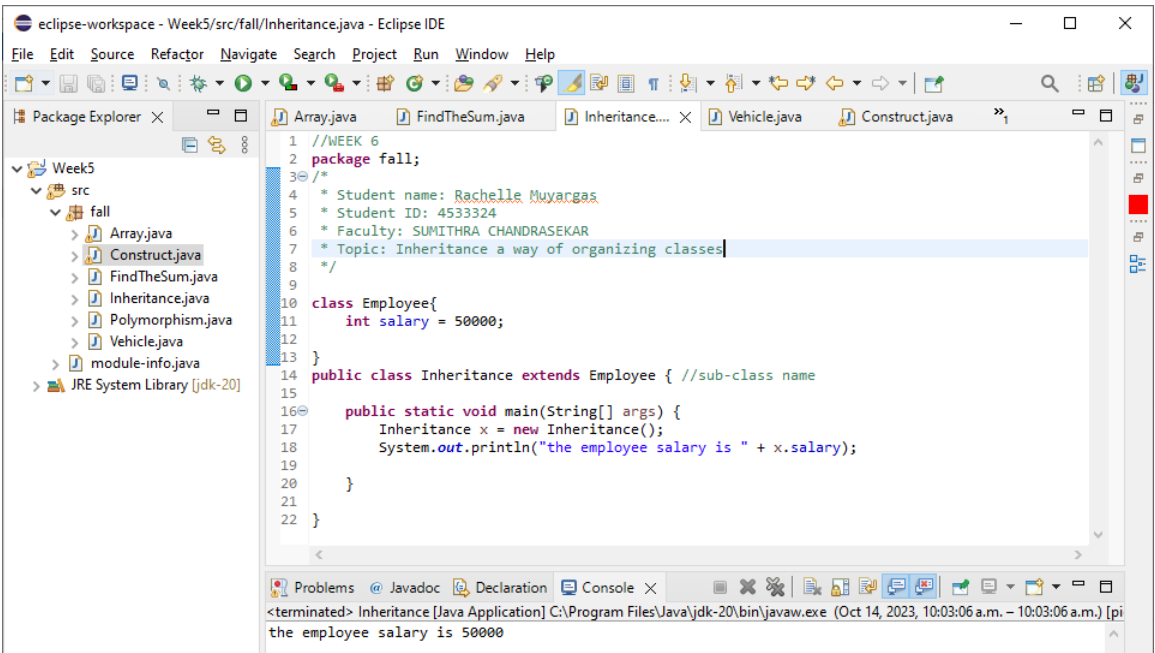


LEARNING ACTIVITY

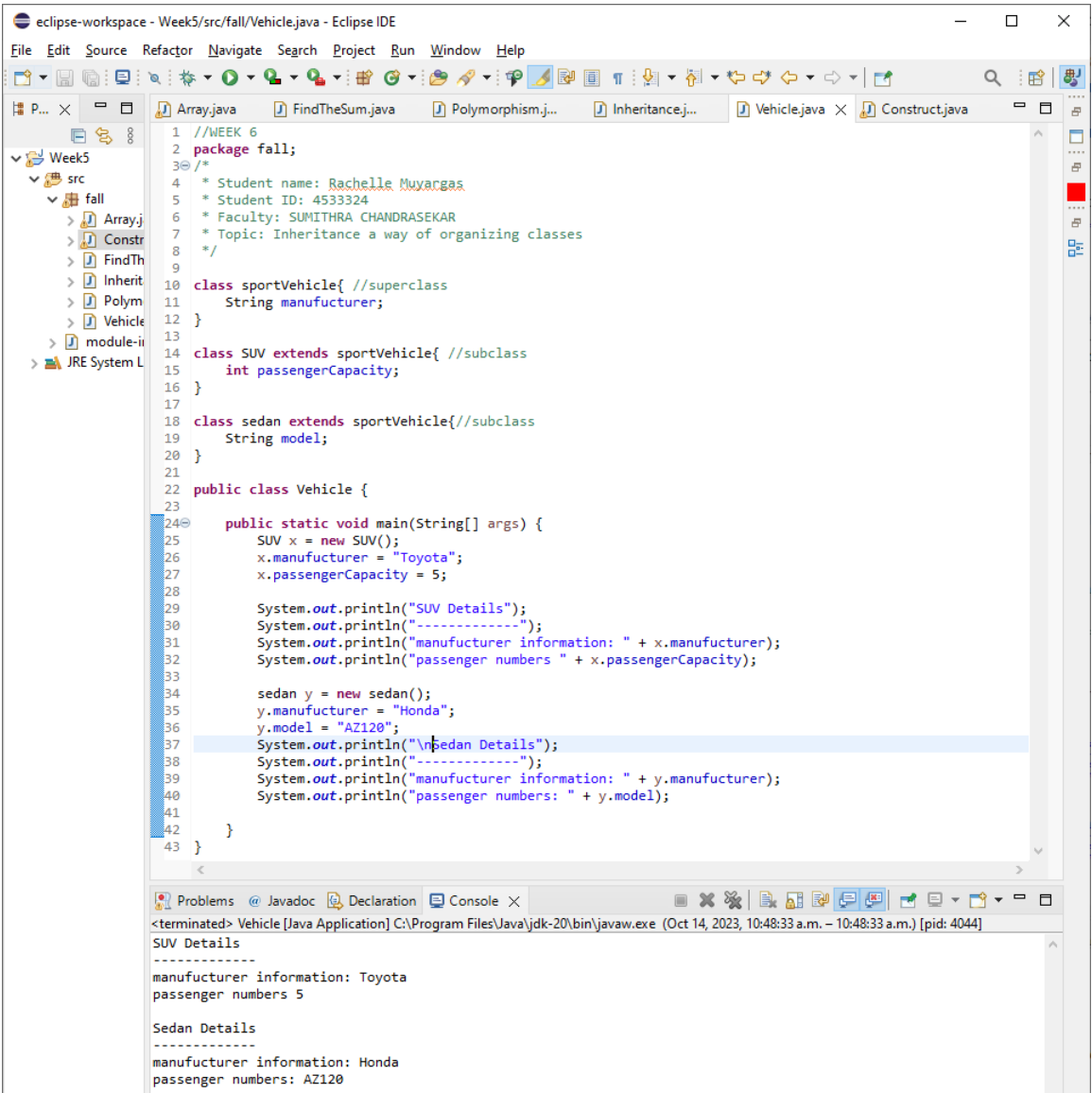


The screenshot shows the Eclipse IDE with the 'Inheritance.java' file open. The code defines an 'Employee' class with a 'salary' attribute and an 'Inheritance' class that extends 'Employee'. The 'main' method in 'Inheritance' creates an instance of 'Inheritance' and prints the salary. The console at the bottom shows the output: 'the employee salary is 50000'.

```
1 //WEEK 6
2 package fall;
3
4 /*
5  * Student name: Rachelle Muyargas
6  * Student ID: 4533324
7  * Faculty: SUMITHRA CHANDRASEKAR
8  * Topic: Inheritance a way of organizing classes
9  */
10 class Employee{
11     int salary = 50000;
12 }
13
14 public class Inheritance extends Employee { //sub-class name
15
16     public static void main(String[] args) {
17         Inheritance x = new Inheritance();
18         System.out.println("the employee salary is " + x.salary);
19     }
20 }
21
22 }
```

<terminated> Inheritance [Java Application] C:\Program Files\Java\jdk-20\bin\javaw.exe (Oct 14, 2023, 10:03:06 a.m. – 10:03:06 a.m.) [pid: 4044]
the employee salary is 50000

Inheritance.java



The screenshot shows the Eclipse IDE with the 'Vehicle.java' file open. The code defines a 'sportVehicle' class (superclass) with a 'manufacturer' attribute, and two subclasses: 'SUV' (with 'passengerCapacity') and 'sedan' (with 'model'). The 'main' method in 'Vehicle' creates instances of 'SUV' and 'sedan', sets their attributes, and prints their details. The console at the bottom shows the output: 'SUV Details' and 'Sedan Details'.

```
1 //WEEK 6
2 package fall;
3
4 /*
5  * Student name: Rachelle Muyargas
6  * Student ID: 4533324
7  * Faculty: SUMITHRA CHANDRASEKAR
8  * Topic: Inheritance a way of organizing classes
9  */
10 class sportVehicle{ //superclass
11     String manufacturer;
12 }
13
14 class SUV extends sportVehicle{ //subclass
15     int passengerCapacity;
16 }
17
18 class sedan extends sportVehicle{//subclass
19     String model;
20 }
21
22 public class Vehicle {
23
24     public static void main(String[] args) {
25         SUV x = new SUV();
26         x.manufacturer = "Toyota";
27         x.passengerCapacity = 5;
28
29         System.out.println("SUV Details");
30         System.out.println("-----");
31         System.out.println("manufacturer information: " + x.manufacturer);
32         System.out.println("passenger numbers " + x.passengerCapacity);
33
34         sedan y = new sedan();
35         y.manufacturer = "Honda";
36         y.model = "AZ120";
37         System.out.println("\nSedan Details");
38         System.out.println("-----");
39         System.out.println("manufacturer information: " + y.manufacturer);
40         System.out.println("passenger numbers: " + y.model);
41     }
42 }
43 }
```

<terminated> Vehicle [Java Application] C:\Program Files\Java\jdk-20\bin\javaw.exe (Oct 14, 2023, 10:48:33 a.m. – 10:48:33 a.m.) [pid: 4044]
SUV Details

manufacturer information: Toyota
passenger numbers 5

Sedan Details

manufacturer information: Honda
passenger numbers: AZ120

Vehicle.java

eclipse-workspace - Week5/src/fall/Construct.java - Eclipse IDE

File Edit Source Refactor Navigate Search Project Run Window Help

Array.java FindTheSum.java Polymorphism.j... Inheritance.j... Vehicle.java Construct.java

```
1 //WEEK 6
2 package fall;
3 /*
4  * Student name: Rachelle Muvargas
5  * Student ID: 4533324
6  * Faculty: SUMITHRA CHANDRASEKAR
7  * Topic: Constructor initializes the state of new objects.
8  */
9
10
11 public class Construct //default constructor w/out parameter
12 {
13     String Subject;
14     int fee;
15
16     Construct(){
17         System.out.println("Example for Constructor");
18     }
19
20     Construct(int a, String b){
21         System.out.println("age is " + a);
22         System.out.println("your name is " + b);
23     }
24
25     Construct(String course){
26         Subject = course;
27     }
28
29     Construct(int cost){
30         this.fee = cost;
31     }
32
33     public static void main(String[] args) {
34         Construct x = new Construct(); //empty cons
35         Construct y = new Construct(22,"joe"); //passing 2 parameter or argument
36
37         Construct z = new Construct("JAVA");//1 argument
38         System.out.println("\nthe subject name is " + z.Subject);
39
40         Construct f = new Construct(500);
41         System.out.println("fee is " + f.fee);
42     }
43 }
```

Problems Javadoc Declaration Console X

<terminated> Construct [Java Application] C:\Program Files\Java\jdk-20\bin\javaw.exe (Oct 14, 2023, 10:45:55 a.m. – 10:45:55 a.m.) [pid: 16272]

Example for Constructor
age is 22
your name is joe

the subject name is JAVA
fee is 500

Construct.java