Assignment 2

Name: Rohan Jain T B

1) Create a class called "Car" that has the following properties: make, model, year, color, and price. Include a constructor and getter and setter methods for each property.

https://codeshare.io/bvOqpO

```
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2) Create a class called "Student" that has the following properties: name, age, gender, grade, and GPA. Include a constructor and getter and setter methods for each property.

https://codeshare.io/lonJQB

```
Scanner scanner = new Scanner(System.in);

System.out.print("Enter name: ");

String name = scanner.nextLine();

System.out.print("Enter age: ");

int age = scanner.nextLine();

System.out.print("Enter gender: ");

String gender = scanner.nextLine();

Scanner.nextLine(); // consume newline left-over

system.out.print("Enter Grade: ");

Int Grade = scanner.nextInt();

System.out.print("Enter gpa: ");

double gpa = scanner.nextDouble();

System.out.print("Enter gpa: ");

double gpa = scanner.nextDouble();

System.out.println("Age: " + car.getName());

System.out.println("Age: " + car.getName());

System.out.println("Gender: " + car.getGender());

System.out.println("Gender: " + car.getGender());

System.out.println("Gender: " + car.getGender());

System.out.println("gpa: " + car.getGender());
```

3) Create a class called "Circle" that has the following properties: radius, diameter, and area. Include a constructor and methods to calculate the diameter and area of the circle.

https://codeshare.io/BA7IDn

```
Daljava Daljava double diameter;
double diameter;
double area;

public (double radius) {
    this.radius = radius;
}

public void calculateDiameter() {
    diameter = radius * 2;
}

public void calculateArea() {
    area = Math.PI * radius * radius;
}

public void calculateArea() {
    area = Math.PI * radius * radius;
}

y

public void calculateArea() {
    area = Math.PI * radius * radius;
}

y

public static void main(String[] args) {
    Scanner scanner = new Scanner(System.in);
}

scanner scanner = new Scanner(System.in);
}

double radius = scanner.nextDouble();
a3 circle = new as (radius);
circle.calculateArea();
scanner.close();
}

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Enter the radius of the circle: 20
piameter of the circle is: 1256.6370614359173
```

4) Create a class called "Rectangle" that has the following properties: length, width, and area. Include a constructor and a method to calculate the area of the rectangle.

https://codeshare.io/8plkVd

5) Create a class called "BankAccount" that has the following properties: account number, account balance, account holder name, and account type. Include a constructor and methods to deposit and withdraw money from the account.

https://codeshare.io/OdE6Zx

6) Create a class called "Person" that has the following properties: name, age, address, phone number, and email address. Include a constructor and getter and setter methods for each property.

https://codeshare.io/nzoO31

```
String name = input.nextLine();
                         System.out.print("Enter age: ");
                          int age = input.nextInt();
                         input.nextLine();
                         System.out.print("Enter address: ");
                         String address = input.nextLine();
                         System.out.print("Enter phone number: ");
                         String phoneNumber = input.nextLine();
                         System.out.print("Enter email address: ");
                         String emailAddress = input.nextLine();
                         a6 person = new a6 (name, age, address, phoneNumber, emailAddre
                         System.out.println("\nName: " + person.getName());
                         System.out.println("Age: " + person.getAge());
                         System.out.println("Address: " + person.getAddress());
                         System.out.println("Phone number: " + person.getPhoneNumber())
                         System.out.println("Email address: " + person.getEmailAddress(
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<terminated> a6 [Java Application] C:\Users\jainroh\.p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86 64 17.0.6.v2
Name: rohan
Age: 21
Address: thandaga
Phone number: 8277424985
Email address: rohan@gmail.com
```

7) Create a class called "Animal" that has the following properties: name, species, age, and weight. Include a constructor and getter and setter methods for each property.

https://codeshare.io/yo0bwq

```
System.out.print("Enter name: ");
String name = input.nextLine();

System.out.print("Enter species: ");
String species = input.nextLine();

System.out.print("Enter age: ");
int age = input.nextLine();

System.out.print("Enter age: ");
int age = input.nextLine();

System.out.print("Enter weight: ");
double weight = input.nextDouble();

// Create Animal object using user input

// Create Animal object using user input

animal = new af(name, species, age, weight[];

// Print out animal object properties

System.out.println("Name: " + animal.getName());
System.out.println("Name: " + animal.getName());
System.out.println("Species: " + animal.getAge());
System.out.println("Weight: " + animal.getAge());

System.out.println("Weight: " + animal.getWeight());

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8) Create a class called "Triangle" that has the following properties: base, height, and area. Include a constructor and a method to calculate the area of the triangle.

https://codeshare.io/oQ3zmp

9) Create a class called "Employee" that has the following properties: name, employee ID, department, job title, and salary. Include a constructor and getter and setter methods for each property.

https://codeshare.io/LwEObb

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                                                                                                                                                                                                                                                                                                                                                                                                  🛂 a3.java
                                                                                                                                                       🛺 a4.java
                                                                                                                                                                                                      🛺 a5.java
                                                                                                                                                                                                                                                      🛺 a6.java
                                                                                                                                                                                                                                                                                                                                                   🛺 a8.java
                     1 package a9;
2 import java.util.Scanner;
3 public class a9 {
                                                                                                                    private String name;
private int employeeID;
private String department;
                                                                                                                      private double salary;
                                                                                                                     public (String name, int employeeID, String department, String
this.name = name;
                 12•
                                                                                                                                           this.jobTitle = jobTitle;
this.salary = salary;
                20●
                240
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            < terminated > a 9 \ [Java\ Application] \ C:\ Users \ jainroh\ p2 \ pool\ plugins \ org. eclipse. just j. open j dk. hot spot. jre. full. win 32. x 86\_64\_17. win 3
Users\jainroh\.p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.6.v20230204-1729\jre\bin\javaw.exe (2
             Employee department: pe
            Employee job title: Engenneing intern
           Employee salary: 25000.0
```

10) Create a class called "Address" that has the following properties: street, city, state, zip code, and country. Include a constructor and getter and setter methods for each property.

https://codeshare.io/4eonQd

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           🛮 a3.java
                     य a4.java 🛮 🛺 a5.java
                                                   🛺 a7.java
                                                             🛺 a8.java

√ *a9.java

                                         🛺 a6.java
59●
<u>0</u>60
                            Scanner scanner = new Scanner(System.in);
                            System.out.print("Enter street address: ");
                            String street = scanner.nextLine();
                            System.out.print("Enter city: ");
                            String city = scanner.nextLine();
                            System.out.print("Enter state: ");
                            String state = scanner.nextLine();
                            System.out.print("Enter ZIP code: ");
                            String zipCode = scanner.nextLine();
                            System.out.print("Enter country: ");
                            String country = scanner.nextLine();
                            a10 address = new a10(street, city, state, zipCode, country);
                            System.out.println("Street address: " + address.getStreet());
                            System.out.println("City: " + address.getCity());
System.out.println("State: " + address.getState());
                            System.out.println("ZIP code: " + address.getZipCode());
System.out.println("Country: " + address.getCountry());
🔐 Problems 🍳 Javadoc 🔼 Declaration 📮 Console 🗵
Enter ZIP code: 570008
Enter country: india
Street address: tl layout
City: mysore
State: karnataka
ZIP code: 570008
```