

Assignment-2

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.



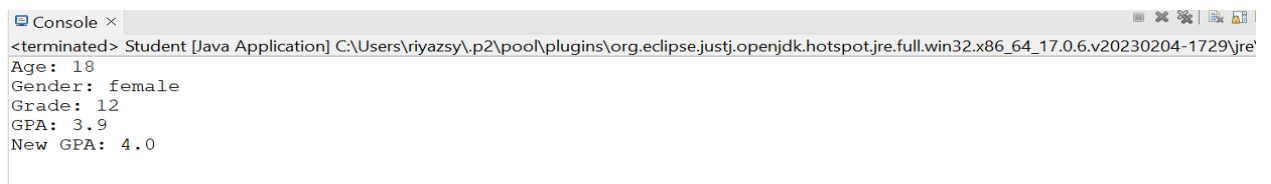
```
1 package assignment2;
2
3 public class Car {
4     //public class Car {
5         // Properties
6         private String make;
7         private String model;
8         private int year;
9         private String color;
10        private double price;
11
12        // Constructor
13        public Car(String make, String model, int year, String color, double price) {
14            this.make = make;
15            this.model = model;
16            this.year = year;
17            this.color = color;
18            this.price = price;
19        }
20
21        // Getter methods
22        public String getMake() {
23            return make;
24        }
25
26        public String getModel() {
27            return model;
28        }
29    }
30 }
```

Console ×

```
<terminated> Car [Java Application] C:\Users\riyazsy\p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.6.v20230204-1729\jre\bin\java.exe
Model: Accord
Year: 2023
Color: Red
Price: 28000.0
```

<https://codeshare.io/MNEYy3>

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.



```
Console ×
<terminated> Student [Java Application] C:\Users\riyazsy\p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.6.v20230204-1729\jre\bin\java.exe
Age: 18
Gender: female
Grade: 12
GPA: 3.9
New GPA: 4.0
```

<https://codeshare.io/qPmryq>

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.

```
Console ×
<terminated> Circle [Java Application] C:\Users\riyazsy\p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.6.v20230204-1729
Diameter: 10.0
Area: 78.53981633974483
New radius: 10.0
New diameter: 20.0
New area: 314.1592653589793
```

<https://codeshare.io/DZEmBl>

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

```
Console ×
<terminated> Rectangle [Java Application] C:\Users\riyazsy\p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.6.v20230204-1729
Width: 10.0
Area: 50.0
New length: 7.0
New width: 12.0
New area: 84.0
```

<https://codeshare.io/oQ3Ilb>

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.

```
Console ×
<terminated> BankAccount [Java Application] C:\Users\riyazsy\p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.6.v20230204-1729
Account holder name: John Doe
Account type: Checking
New account balance after deposit: 6000.0
New account balance after withdrawal: 4000.0
Insufficient funds.
```

<https://codeshare.io/BA733x>

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.

```
Console ×
<terminated> Person [Java Application] C:\Users\riyazsy\.p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.6.v20230204-17
Name: Jane Smith
Age: 25
Address: 456 Oak Ave
Phone Number: 555-123-4567
Email Address: janesmith@example.com
```

<https://codeshare.io/yo09Mn>

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.

```
Console ×
<terminated> Animal [Java Application] C:\Users\riyazsy\.p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.6.v20230204-17
Name: Max
Species: German Shepherd
Age: 5
Weight: 85.0
```

<https://codeshare.io/pgkLM4>

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

```
Console ×
<terminated> Triangle [Java Application] C:\Users\riyazsy\.p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.6.v20230204-17
The area of the triangle is: 25.0
```

<https://codeshare.io/wnv6WP>

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/bvO6lj>

```
Console ×
<terminated> Employee [Java Application] C:\Users\riyazsy\.p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.6.v20230204-
Department: IT
Job title: Software Engineer
Salary: 75000.0
Job title: Senior Software Engineer
Salary: 80000.0
```

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

```
Console ×
<terminated> Address [Java Application] C:\Users\riyazsy\.p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.6.v20230204-17
Street: 123 Main St
City: Anytown
State: CA
Zip code: 12345
Country: USA
Zip code: 54321
Country: Canada
```

<https://codeshare.io/r9lMjq>