ASSIGNMENT 02

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/RbvYAL

Console ×

<terminated> Vehicle [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (02-Mar-2023, 9:23:12 am – 9:23:13 am) [pid: 23148]
Make: Toyota
Model: Camry
Year: 2023
Color: Blue
Price: $580000.0
New Price: $300000.0
New Color: Black

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/K8EYBM

Console ×

<terminated> Student [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (02-Mar-2023, 9:26:50 am – 9:26:51 am) [pid: 24156]
Nandini has a GPA of 9.5
Nikitha has a GPA of 4.0

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/yo09pl

<terminated> Circle [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (02-Mar-2023, 9:35:03 am – 9:35:04 am) [pid: 20528]
Radius: 5.0
Diameter: 10.0
Area: 78.53981633974483

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/PdEYLE

Console ×

<terminated> Rectangle [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (02-Mar-2023, 10:15:35 am – 10:15:35 am) [pid: 23240]
Length: 5.0
Width: 3.0
Area: 15.0

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.

<terminated> BankAccount [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (02-Mar-2023, 10:18:31 am – 10:18:31 am) [pid: 12240]
```
Account Balance: 1000
500 deposited account balance is 1500
200 withdrawn account balance is 1300
Withdrawal failed
```

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:\Program Files\Java\jdk-19\bin\javaw.exe (02-Mar-2023, 10:24:02 am – 10:24:04 am) [pid: 9372]
```
Name: Nikitha
Age: 22
Address: Hootgalli,Mysore,Karnataka
Phone Number: 965-345-4532
Email Address: nikitha@email.com
New Age: 27
New Phone Number: 645-636-2872
```

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:\Program Files\Java\jdk-19\bin\javaw.exe (02-Mar-2023, 10:38:15 am – 10:38:15 am) [pid: 10468]
```
Name: Simha
Species: Lion
Age: 3
Weight: 150
New Age: 4
New Weight: 170
```

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.

<terminated> Triangle [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (02-Mar-2023, 11:42:45 am – 11:42:46 am) [pid: 4676]
```
Base: 5.0
Height: 7.5
Area: 18.75
```

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.

`<terminated> Employee [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (02-Mar-2023, 11:45:12 am – 11:45:13 am) [pid: 5912]`

```
Name: Nikitha
Employee ID: 12345
Department: IT
Job Title: Software Engineer
Salary: 25000.0
New Job Title: Senior Software Engineer
New 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.**

https://codeshare.io/X8EYqz

`<terminated> Address [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (02-Mar-2023, 11:50:06 am – 11:50:07 am) [pid: 13392]`

```
Street: VanivikasColony
City: Mysore
State: Karnataka
Zip Code: 570027
Country: India
New Street: HousingBoardColony
New City: Bellary
```