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/zyAMMb

```
public void setColor(String color) {

this.color = color;

45

46

47

48

48

public double getPrice() {

return price;

50

$

$

$

public void setFrice(double price) {

this.price = price;

$

$

$

public static void main(String[] args) {

// Create a new Car object

$

car2 myCar = new car2("Volkswagen", "Vento", 2022, "Whi

// Set the color of the car

myCar.setColor("Blue");

// Print out the make, model, year, color, and price of

System.out.println("Make: " + myCar.getMake());

System.out.println("Year: " + myCar.getMake());

System.out.println("Year: " + myCar.getVear());

System.out.println("Color: " + myCar.getColor());

64

System.out.println("Color: " + myCar.getPrice());

65

66

67

68

}

**Console ×

**Problems **Debug Shell**

*terminated> car2 [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (02-Mar-2023, 5:35:32 pm - 5:3)

Make: Volkswagen

Model: Vento

Year: 2022

Color: Blue

Price: rs 1600000.0
```

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/vwjMV7

```
## public void setGender(String gender) {
    this.gender = gender;
}

public void setGrade(int grade) {
    this.grade = grade;
}

public void setGpa(double gpa) {
    this.gpa = gpa;
}

public static void main(String[] args) {
    public static void main(String[] args) {
        // Your code for the main method goes here
        // For example, you can create a new Student object ar
        student student = new student("John", 18, "Male", 12,
        System.out.println("Name: " + student.getName());
        System.out.println("Gender: " + student.getGender());

System.out.println("Grade: " + student.getGender());

System.out.println("GPA: " + student.getGpa());

System.out.println("GPA: " + student.getGpa());

**Console × ** Problems **Debug Shell**

**Console × ** Problems **Debug Shell**

**Console ** Application C.\Program Files\Java\jdk-19\bin\javaw.exe (02-Mar-2023, 5:50:05)

Name: John
Age: 18
Gender: Male
Grade: 12
GPA: 3.8
```

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/yo0MVe

```
public double getDiameter() {
    return diameter;
    public double getArea() {
        return area;
    }

    public static void main(String[] args) []

        return area;

        return area;
```

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/pqkMPx

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/gL9VR0

```
// deposit $500 into the account
76 account.deposit(500.0);
77
78 // display updated account balance
79 System.out.println("New account balance: " + account.getAccountBalance()); // New
80
81 // withdraw $200 from the account
82 account.withdraw(200.0);
83
84 // display updated account balance
85 System.out.println("New account balance: " + account.getAccountBalance()); // New
86
87;
88
89;
90

Console ×  Problems Debug Shell

<terminated Bankaccount [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (02-Mar-2023, 6:07:20 pm - 6:07:20 pm) [pi]
BankAccount (accountNumber=123456, accountBalance=1000.0, accountHolderName='John Smith',
New account balance: 1500.0
New account balance: 1300.0
```

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/X8Eq1z

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/yo0Mjv

```
## Public static void main (String[] args) {

## Animal myPet = new Animal ("Fluffy", "Cat", 5, 3.5);

## System.out.println("My pet's name is " + myPet.getName());

## System.out.println("My pet is a " + myPet.getSpecies());

## System.out.println("My pet is a " + myPet.getAge() + " years old");

## System.out.println("My pet is " + myPet.getWeight() + " kg");

## MyPet.setWeight(4.0);

## System.out.println("My pet is now " + myPet.getAge() + " years old");

## System.out.println("My pet is now " + myPet.getWeight() + " kg");

## System.out.println("My pet now weighs " + myPet.getWeight() + " kg");

## Console × ## Problems ## Debug Shell

** Console × ## Problems ## Debug Shell

** Console × ## Problems ## Debug Shell

** Lerminated > Animal [Java Application] C\Program Files\Java\jdk-19\bin\javaw.exe (02-Mar-2023, 8.06:54 pm - 8.06:54 pm) [pid: 17388]

## My pet is a Cat

## My pet is 5 years old

My pet weighs 3.5 kg

My pet is now 6 years old

My pet now weighs 4.0 kg
```

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/1Y8Q7j

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/vwjWAL

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/X8EeBY