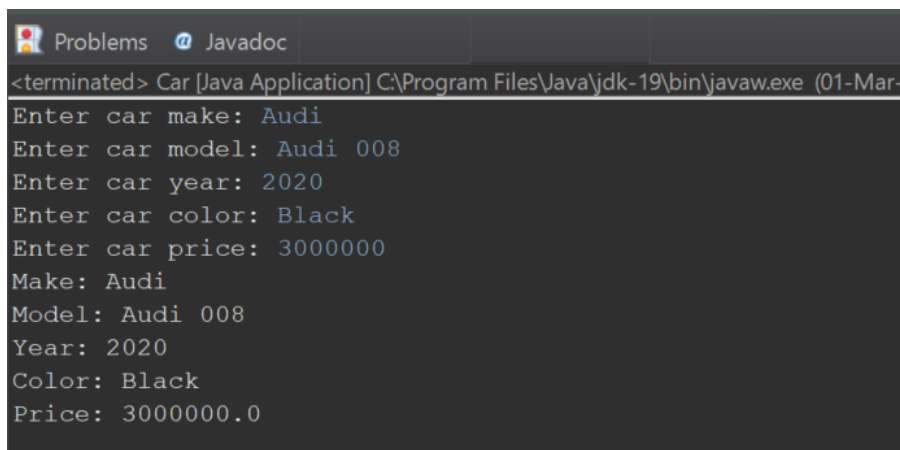


## Java Assignment-2

### Topic: Object-Oriented Programming (OOP) Concepts

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.

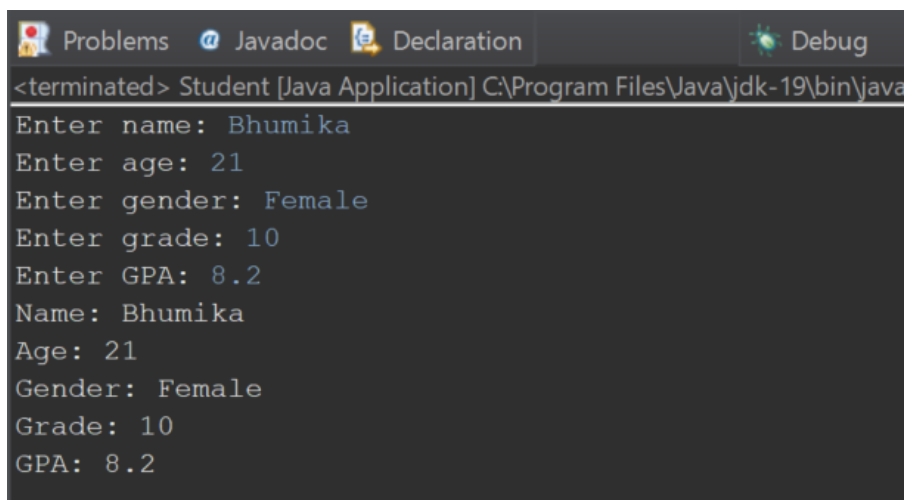
<https://codeshare.io/Ad1zKk>



```
Problems Javadoc
<terminated> Car [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (01-Mar-
Enter car make: Audi
Enter car model: Audi 008
Enter car year: 2020
Enter car color: Black
Enter car price: 3000000
Make: Audi
Model: Audi 008
Year: 2020
Color: Black
Price: 3000000.0
```

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.

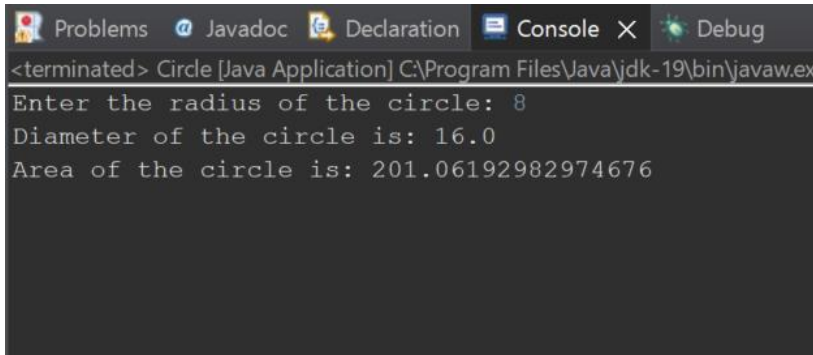
<https://codeshare.io/LwEoWK>



```
Problems Javadoc Declaration Debug
<terminated> Student [Java Application] C:\Program Files\Java\jdk-19\bin\java
Enter name: Bhumika
Enter age: 21
Enter gender: Female
Enter grade: 10
Enter GPA: 8.2
Name: Bhumika
Age: 21
Gender: Female
Grade: 10
GPA: 8.2
```

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.

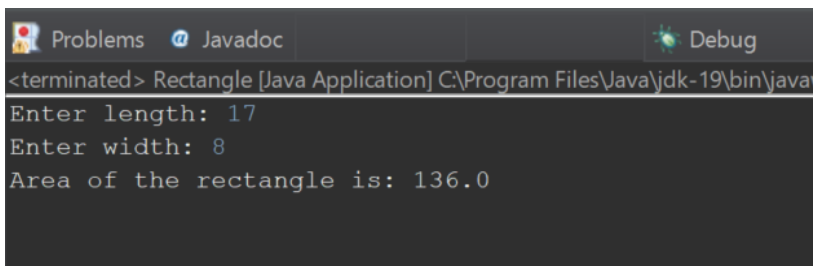
<https://codeshare.io/OdEmJ0>



```
<terminated> Circle [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe
Enter the radius of the circle: 8
Diameter of the circle is: 16.0
Area of the circle is: 201.06192982974676
```

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.

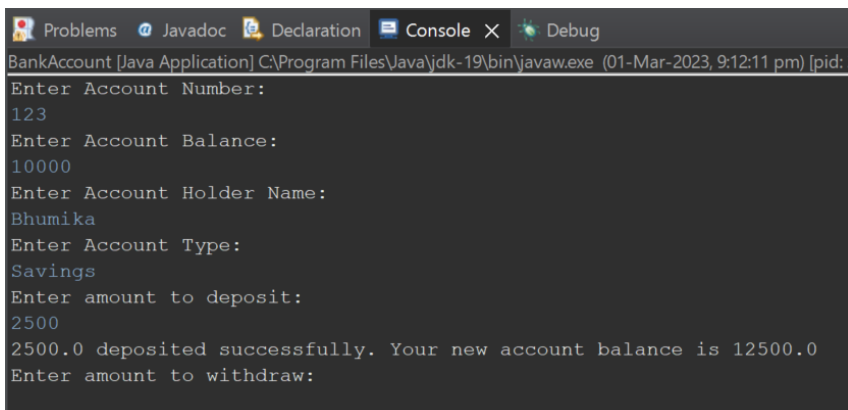
<https://codeshare.io/QnELOe>



```
<terminated> Rectangle [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe
Enter length: 17
Enter width: 8
Area of the rectangle is: 136.0
```

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.

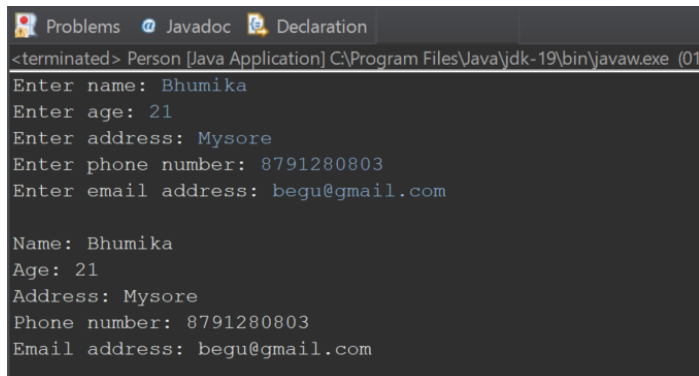
<https://codeshare.io/6pknxO>



```
BankAccount [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (01-Mar-2023, 9:12:11 pm) [pid: 3
Enter Account Number:
123
Enter Account Balance:
10000
Enter Account Holder Name:
Bhumika
Enter Account Type:
Savings
Enter amount to deposit:
2500
2500.0 deposited successfully. Your new account balance is 12500.0
Enter amount to withdraw:
```

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/vwjp7l>

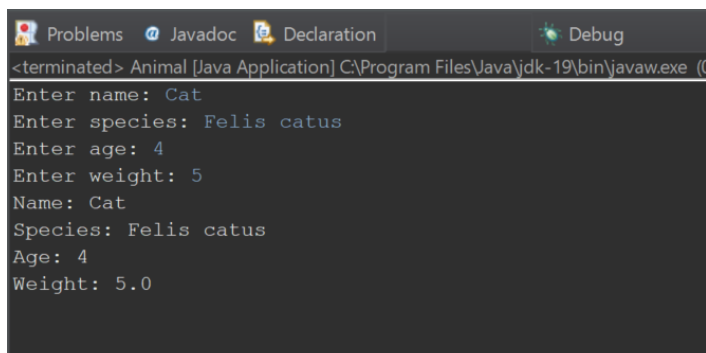


```
Problems Javadoc Declaration
<terminated> Person [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (01
Enter name: Bhumika
Enter age: 21
Enter address: Mysore
Enter phone number: 8791280803
Enter email address: begu@gmail.com

Name: Bhumika
Age: 21
Address: Mysore
Phone number: 8791280803
Email address: begu@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.

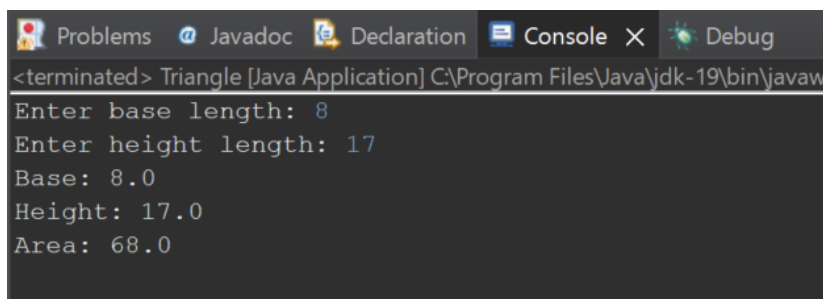
<https://codeshare.io/mpbEJj>



```
Problems Javadoc Declaration Debug
<terminated> Animal [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (0
Enter name: Cat
Enter species: Felis catus
Enter age: 4
Enter weight: 5
Name: Cat
Species: Felis catus
Age: 4
Weight: 5.0
```

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.

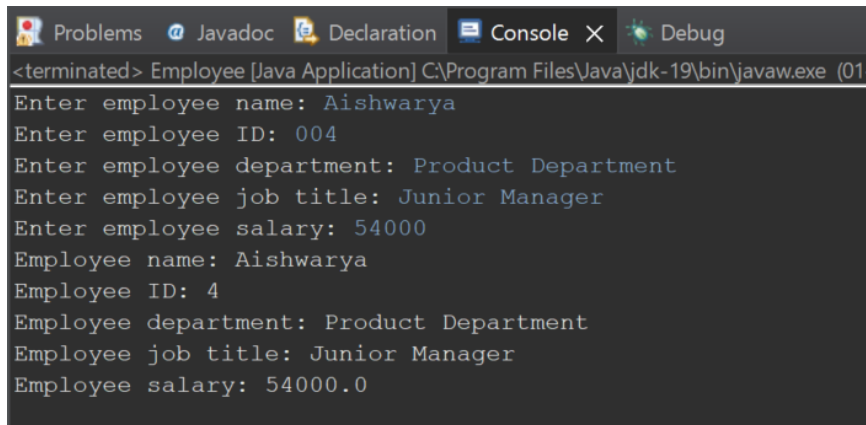
<https://codeshare.io/ZJEvqV>



```
Problems Javadoc Declaration Console X Debug
<terminated> Triangle [Java Application] C:\Program Files\Java\jdk-19\bin\javaw
Enter base length: 8
Enter height length: 17
Base: 8.0
Height: 17.0
Area: 68.0
```

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.

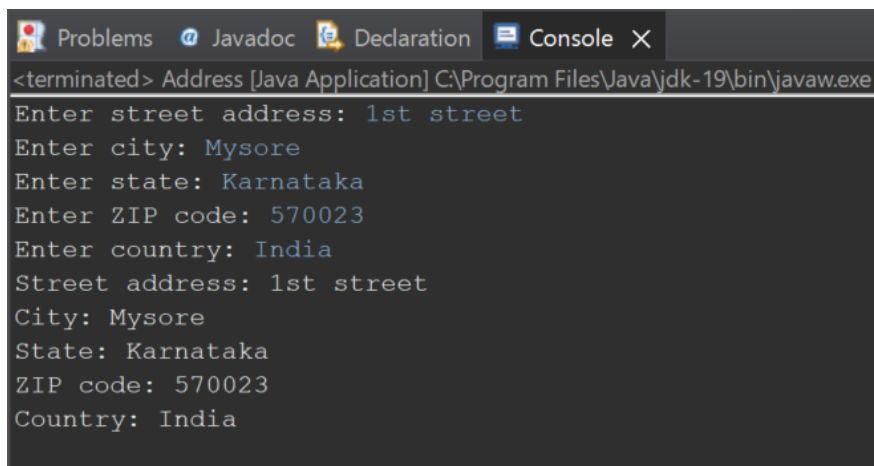
<https://codeshare.io/DZEwYI>



```
Problems Javadoc Declaration Console X Debug
<terminated> Employee [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (01
Enter employee name: Aishwarya
Enter employee ID: 004
Enter employee department: Product Department
Enter employee job title: Junior Manager
Enter employee salary: 54000
Employee name: Aishwarya
Employee ID: 4
Employee department: Product Department
Employee job title: Junior Manager
Employee salary: 54000.0
```

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/JbMnWZ>



```
Problems Javadoc Declaration Console X
<terminated> Address [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe
Enter street address: 1st street
Enter city: Mysore
Enter state: Karnataka
Enter ZIP code: 570023
Enter country: India
Street address: 1st street
City: Mysore
State: Karnataka
ZIP code: 570023
Country: India
```