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Java Assignment-2
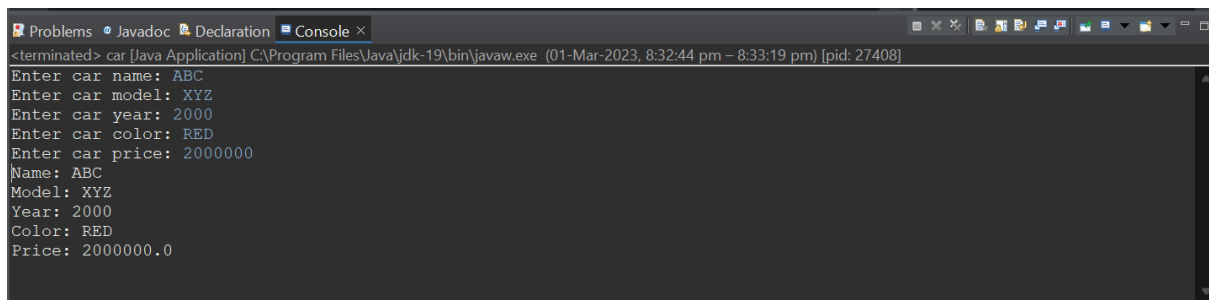
1. Create a class called "Car" that has the following properties: make,model, year, color, and price. Include a constructor and getter and setter methods for each property.

https://codeshare.io/eV6LV9

OUTPUT:


```
Problems  Javadoc  Declaration  Console ×
<terminated> car [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe  (01-Mar-2023, 8:32:44 pm – 8:33:19 pm) [pid: 27408]
Enter car name: ABC
Enter car model: XYZ
Enter car year: 2000
Enter car color: RED
Enter car price: 2000000
Name: ABC
Model: XYZ
Year: 2000
Color: RED
Price: 2000000.0
```

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/9OL3XV

OUTPUT:

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/wnvE4p

OUTPUT:

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/MNE39J

OUTPUT:

```
Problems  Javadoc  Declaration  Console ×
<terminated> rectangle [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe  (01-Mar-2023, 9:00:45 pm – 9:00:51 pm) [pid: 29160]
Enter length: 20
Enter width: 30
Area of the rectangle is: 600.0
```

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/PdElAe

OUTPUT:

```
Problems  Javadoc  Declaration  Console ×
<terminated> bank [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe  (01-Mar-2023, 9:49:25 pm – 9:50:27 pm) [pid: 18644]
Enter Account Number:
1
Enter Account Balance:
35000
Enter Account Holder Name:
a
Enter Account Type: |
sb
Enter amount to deposit:
10000
10000.0 deposited successfully. Your new account balance is 45000.0
Enter amount to withdraw:
5000
5000.0 withdrawn successfully. Your new account balance is 40000.0
```

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.

OUTPUT:

```
Problems  Javadoc  Declaration  Console ×
<terminated> person [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe  (01-Mar-2023, 10:00:15 pm – 10:00:43 pm) [pid: 6460]
Enter name: a
Enter age: 21
Enter address: xyz
Enter phone number: 1234567892
Enter email address: a@gmail.com

Name: a
Age: 21
Address: xyz
Phone number: 1234567892
Email address: a@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.

OUTPUT:

```
Problems  Javadoc  Declaration  Console ×
<terminated> animal [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe  (02-Mar-2023, 11:39:39 am – 11:40:07 am) [pid: 16012]
Enter name: dog
Enter species: A
Enter age: 5
Enter weight: 20
Name: dog
Species: A
Age: 5
Weight: 20.0
```

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/mpbkg0

OUTPUT:

```
Problems  Javadoc  Declaration  Console ×
<terminated> triangle [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe  (02-Mar-2023, 11:43:20 am – 11:44:11 am) [pid: 11712]
Enter base length:
Enter height length  <terminated> triangle [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe  (02-Mar-2023, 11:43:20 am – 11:44:11 am) [pid: 11712]
Base: 20.0
Height: 30.0
Area: 300.0
```

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.
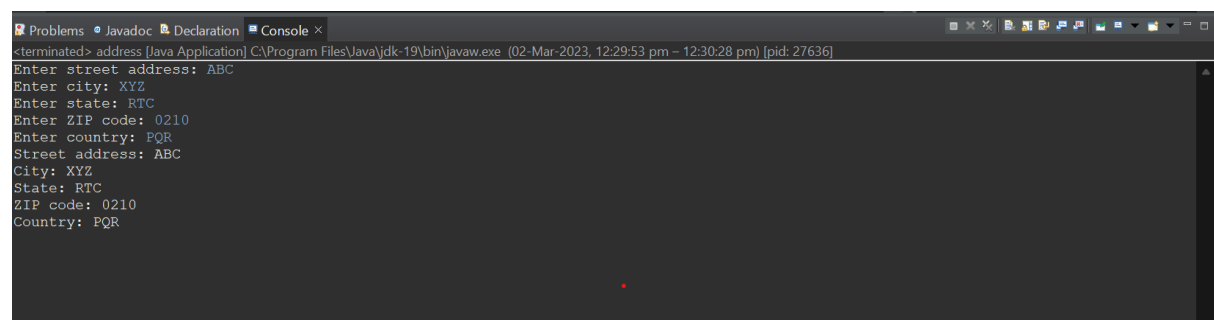
https://codeshare.io/EBElD4

OUTPUT:

```
Problems  Javadoc  Declaration  Console ×
<terminated> employee [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe  (02-Mar-2023, 11:47:10 am – 11:47:39 am) [pid: 29808]
Enter employee name: A
Enter employee ID: 10
Enter employee department: IT
Enter employee job title: software
Enter employee salary: 20000
Employee name: A
Employee ID: 10
Employee department: IT
Employee job title: software
Employee salary: 20000.0
```

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/wnv6Lx

OUTPUT:

```
Enter street address: ABC
Enter city: XYZ
Enter state: RTC
Enter ZIP code: 0210
Enter country: PQR
Street address: ABC
City: XYZ
State: RTC
ZIP code: 0210
Country: PQR
```