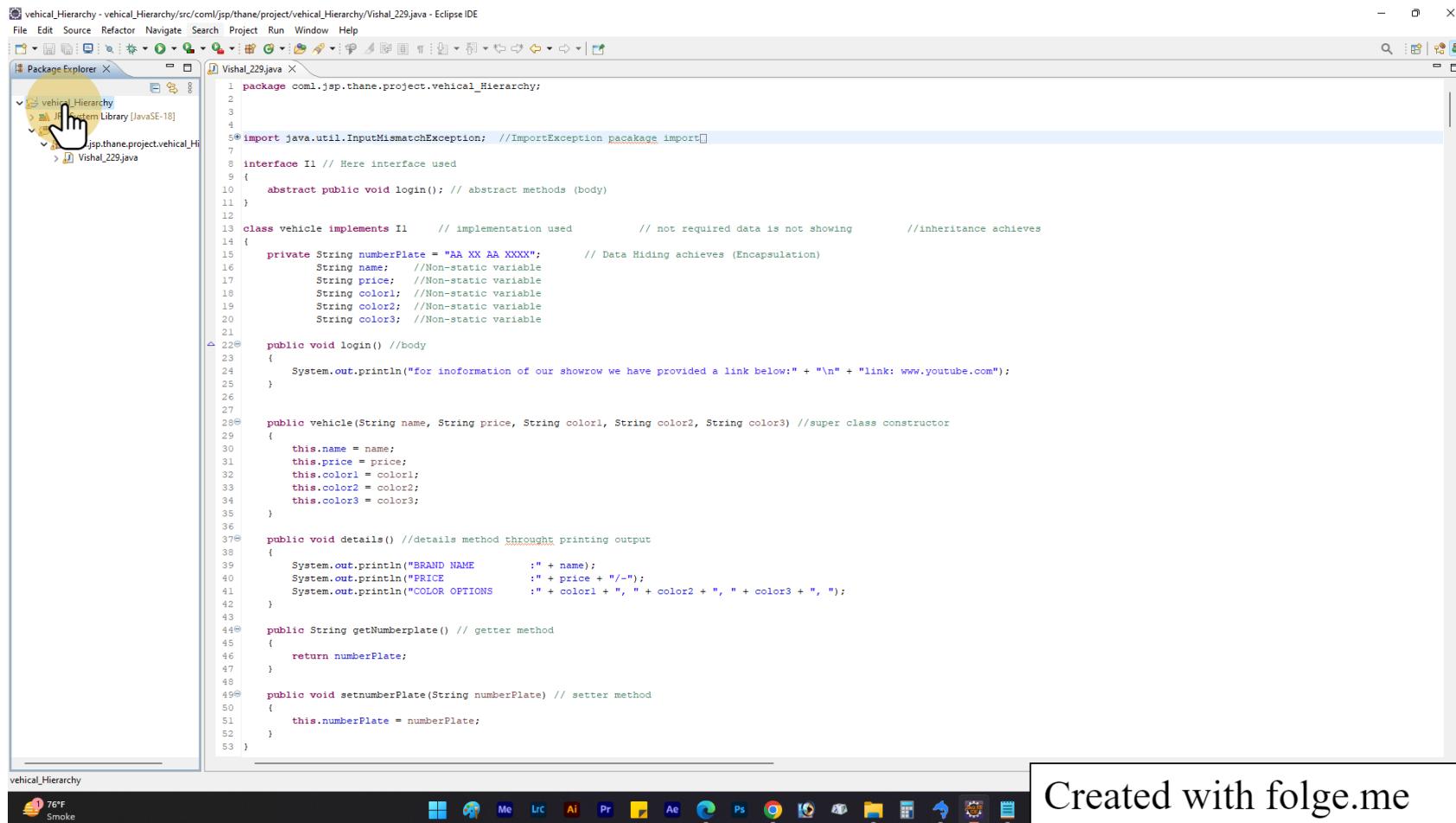


# **Vehicle Project Step**

1



```
vehical_Hierarchy - vehical_Hierarchy/src/com/l.jsp/thane/project/vehical_Hierarchy/Vishal_229.java - Eclipse IDE
File Edit Source Refactor Navigate Project Run Window Help
Package Explorer X Vishal_229.java X
1 package com.l.jsp.thane.project.vehical_Hierarchy;
2
3
4
5* import java.util.InputMismatchException; //ImportException package import
6
7 interface II // Here interface used
8 {
9     abstract public void login(); // abstract methods (body)
10 }
11
12 class vehicle implements II // implementation used           // not required data is not showing      //inheritance achieves
13 {
14     private String numberPlate = "AA XX AA XXXX";           // Data Hiding achieves (Encapsulation)
15     String name; //Non-static variable
16     String price; //Non-static variable
17     String color1; //Non-static variable
18     String color2; //Non-static variable
19     String color3; //Non-static variable
20
21     △ 22 public void login() //body
22     {
23         System.out.println("for inoformation of our showrow we have provided a link below:" + "\n" + "link: www.youtube.com");
24     }
25
26
27
28     public vehicle(String name, String price, String color1, String color2, String color3) //super class constructor
29     {
30         this.name = name;
31         this.price = price;
32         this.color1 = color1;
33         this.color2 = color2;
34         this.color3 = color3;
35     }
36
37     public void details() //details method through printing output
38     {
39         System.out.println("BRAND NAME      :" + name);
40         System.out.println("PRICE          :" + price + "-/-");
41         System.out.println("COLOR OPTIONS  :" + color1 + ", " + color2 + ", " + color3 + ", ");
42     }
43
44     public String getNumberplate() // getter method
45     {
46         return numberPlate;
47     }
48
49     public void setnumberPlate(String numberPlate) // setter method
50     {
51         this.numberPlate = numberPlate;
52     }
53 }
```

Created with folge.me

Eclipse IDE - Vehicle\_Hierarchy - vehicle\_Hierarchy - src/com/l/jsp/thane/project/vehical\_Hierarchy/Vishal\_229.java

```

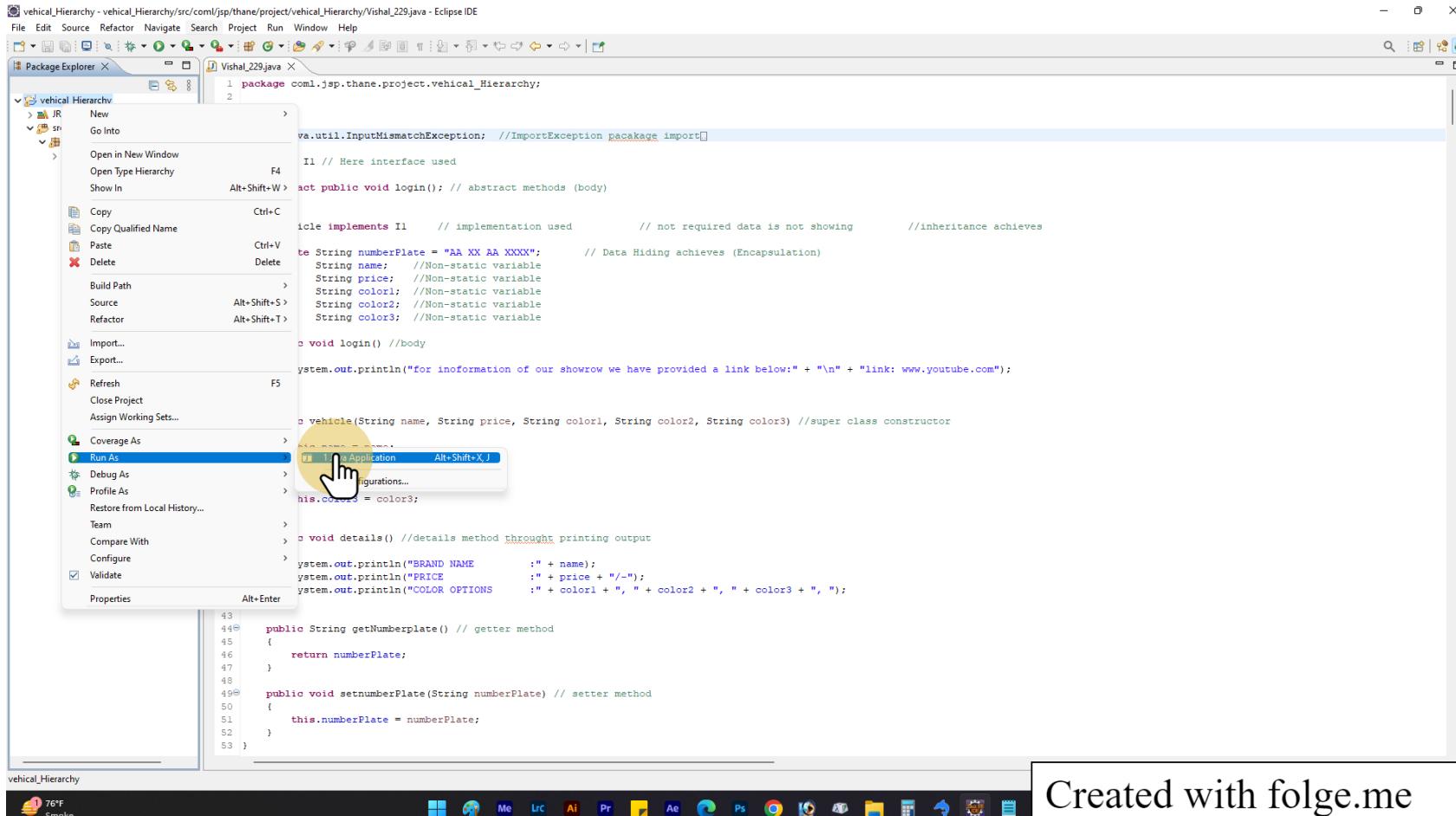
1 package com.l.jsp.thane.project.vehical_Hierarchy;
2
3 import java.util.InputMismatchException; //ImportException package import
4
5 interface II { // Here interface used
6     abstract public void login(); // abstract methods (body)
7 }
8
9 class vehicle implements II { // implementation used           // not required data is not showing      //inheritance achieves
10    String numberPlate = "AA XX AA XXXX";
11    String name; //Non-static variable
12    String price; //Non-static variable
13    String color1; //Non-static variable
14    String color2; //Non-static variable
15    String color3; //Non-static variable
16
17    void login() //body
18    {
19        System.out.println("for information of our showroom we have provided a link below:" + "\n" + "link: www.youtube.com");
20
21        vehicle(String name, String price, String color1, String color2, String color3) //super class constructor
22        {
23            this.name = name;
24            this.price = price;
25            this.color1 = color1;
26            this.color2 = color2;
27            this.color3 = color3;
28        }
29
30        void details() //details method through printing output
31        {
32            System.out.println("BRAND NAME : " + name);
33            System.out.println("PRICE : " + price + "-/-");
34            System.out.println("COLOR OPTIONS : " + color1 + ", " + color2 + ", " + color3 + ", ");
35
36            public String getNumberplate() // getter method
37            {
38                return numberPlate;
39            }
40
41            public void setNumberplate(String numberPlate) // setter method
42            {
43                this.numberPlate = numberPlate;
44            }
45        }
46    }
47}
48
49
50
51
52
53

```

Run As → Java Application

Created with folge.me

### 3 Running state of Project



The screenshot shows the Eclipse IDE interface with a Java file named 'Vishal\_229.java' open in the editor. The code implements an interface 'II' and defines a constructor and methods for a vehicle. A context menu is open over the code, with the 'Run As' option highlighted by a yellow circle. A submenu for 'Application' is visible under 'Run As'. The status bar at the bottom shows system information like '76F Smoke'.

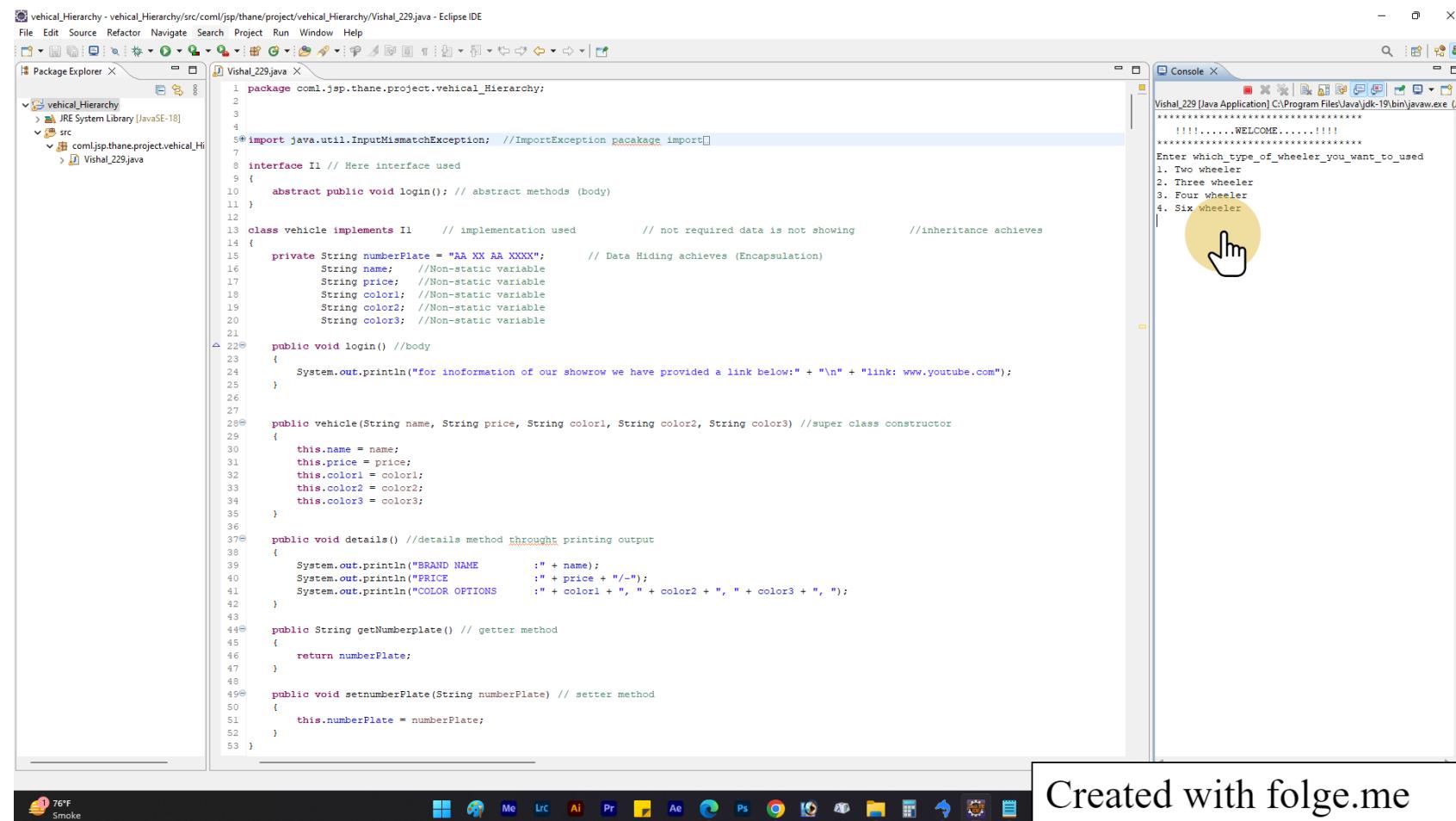
```

1 package com.jsp.thane.project.vehical_Hierarchy;
2
3 import java.util.InputMismatchException; //ImportException package import
4
5 II // Here interface used
6
7 abstract public void login(); // abstract methods (body)
8
9 class implements II // implementation used           // not required data is not showing      //inheritance achieves
10
11 String numberPlate = "AA XX AA XXXX";           // Data Hiding achieves (Encapsulation)
12 String name; //Non-static variable
13 String price; //Non-static variable
14 String color1; //Non-static variable
15 String color2; //Non-static variable
16 String color3; //Non-static variable
17
18 void login() //body
19 {
20     System.out.println("for inoformation of our showrow we have provided a link below:" + "\n" + "link: www.youtube.com");
21 }
22
23 vehicle(String name, String price, String color1, String color2, String color3) //super class constructor
24 {
25     this.name = name;
26     this.price = price;
27     this.color1 = color1;
28     this.color2 = color2;
29     this.color3 = color3;
30 }
31
32 void details() //details method through printing output
33 {
34     System.out.println("BRAND NAME : " + name);
35     System.out.println("PRICE : " + price + "-/-");
36     System.out.println("COLOR OPTIONS : " + color1 + ", " + color2 + ", " + color3 + ", ");
37 }
38
39 public String getNumberplate() // getter method
40 {
41     return numberPlate;
42 }
43
44 public void setnumberPlate(String numberPlate) // setter method
45 {
46     this.numberPlate = numberPlate;
47 }
48
49
50
51
52
53 }

```

Created with folge.me

## 4 press input what you want



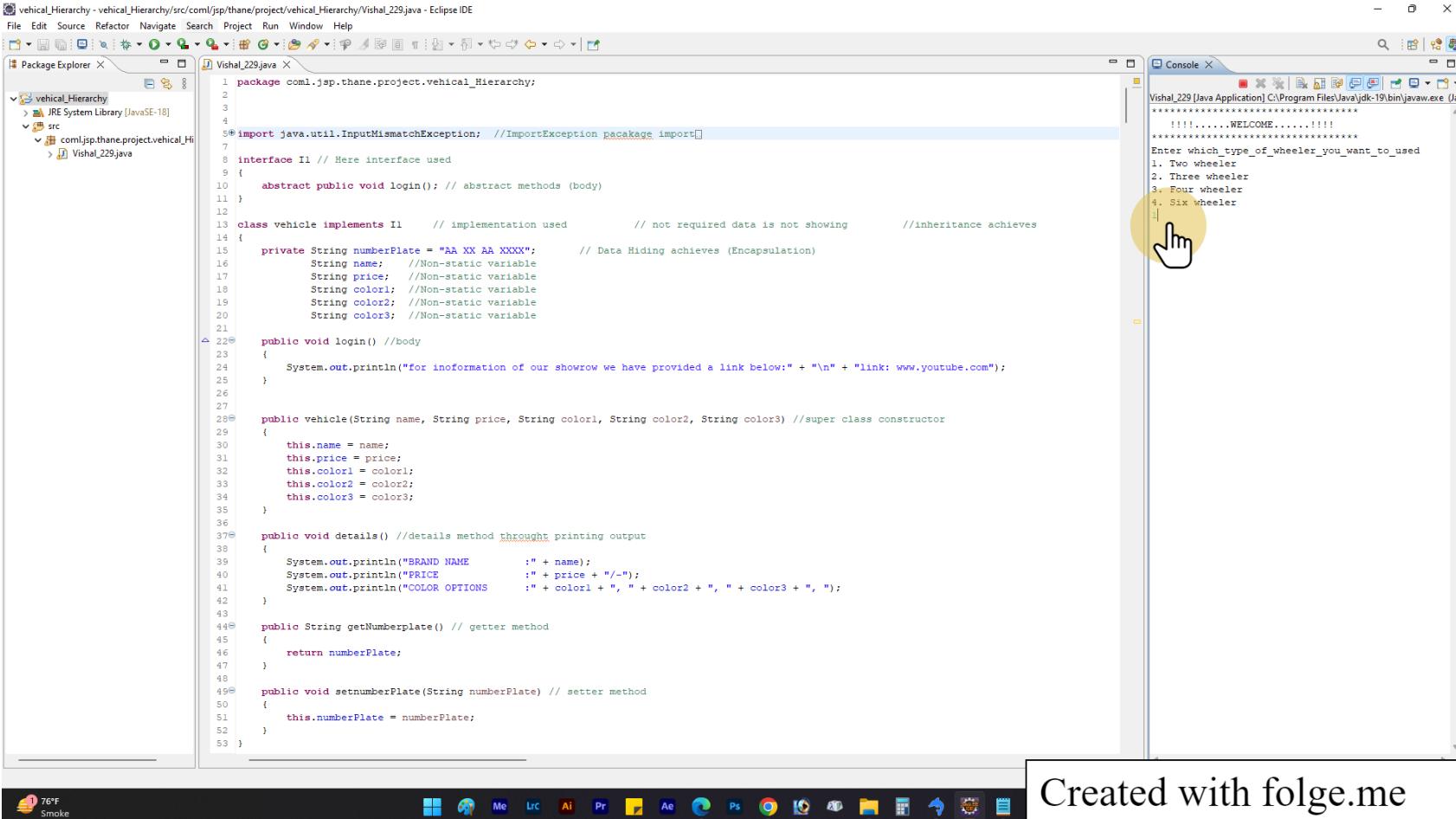
```

1 package com.jsp.thane.project.vehical_Hierarchy;
2
3
4
5 import java.util.InputMismatchException; //ImportException package import
6
7 interface Il // Here interface used
8 {
9     abstract public void login(); // abstract methods (body)
10 }
11
12 class vehicle implements Il // implementation used           // not required data is not showing      //inheritance achieves
13 {
14     private String numberPlate = "AA XX AA XXXX";           // Data Hiding achieves (Encapsulation)
15     String name; //Non-static variable
16     String price; //Non-static variable
17     String color1; //Non-static variable
18     String color2; //Non-static variable
19     String color3; //Non-static variable
20
21     public void login() //body
22     {
23         System.out.println("for inoformation of our showrow we have provided a link below:" + "\n" + "link: www.youtube.com");
24     }
25
26
27
28     public vehicle(String name, String price, String color1, String color2, String color3) //super class constructor
29     {
30         this.name = name;
31         this.price = price;
32         this.color1 = color1;
33         this.color2 = color2;
34         this.color3 = color3;
35     }
36
37     public void details() //details method through printing output
38     {
39         System.out.println("BRAND NAME      :" + name);
40         System.out.println("PRICE          :" + price + "-/-");
41         System.out.println("COLOR OPTIONS  :" + color1 + ", " + color2 + ", " + color3 + ", ");
42     }
43
44     public String getNumberplate() // getter method
45     {
46         return numberPlate;
47     }
48
49     public void setnumberPlate(String numberPlate) // setter method
50     {
51         this.numberPlate = numberPlate;
52     }
53 }

```

Created with folge.me

5



Vishal\_229.java

```

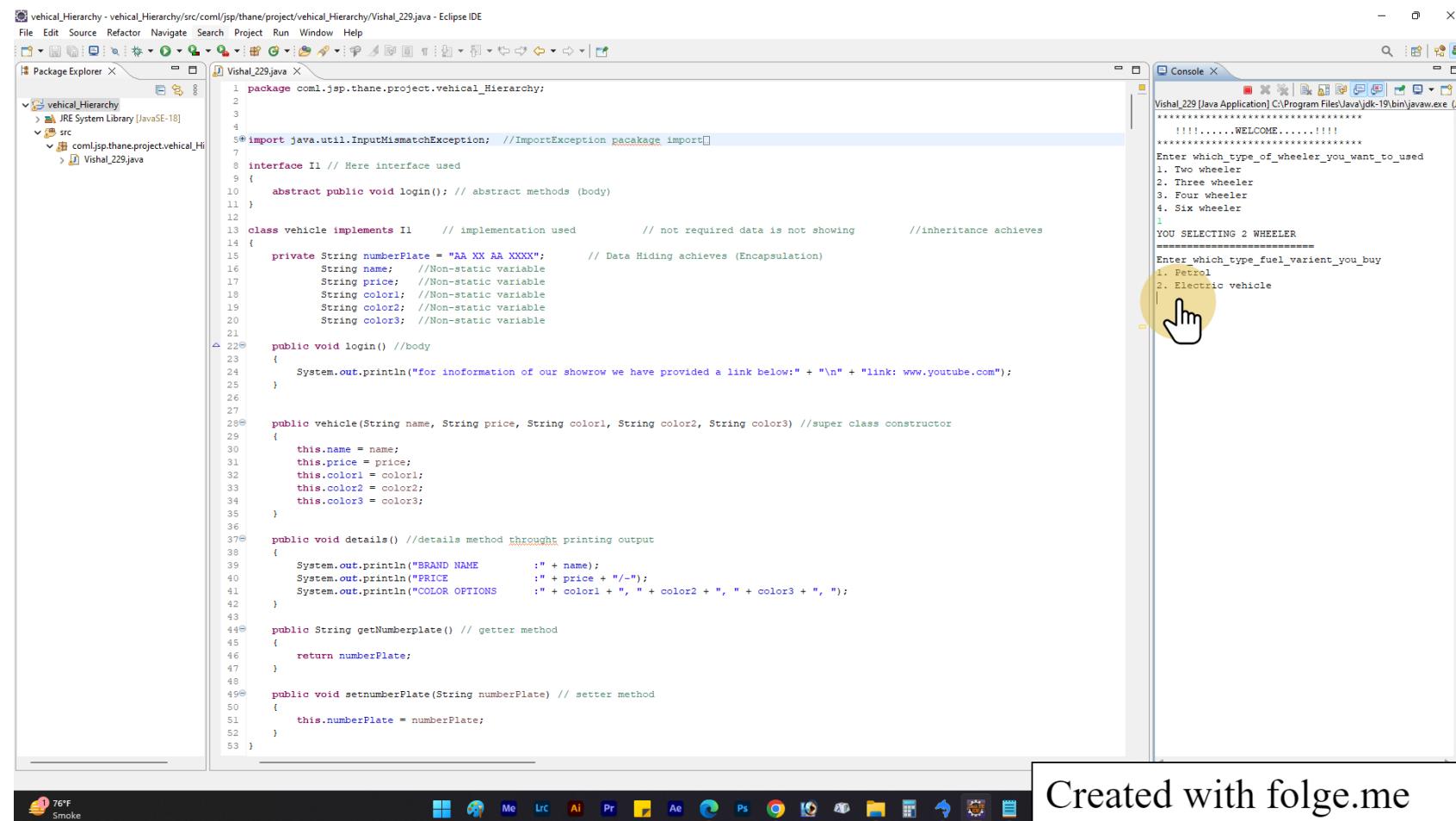
1 package com.jsp.thane.project.vehical_Hierarchy;
2
3
4
5 import java.util.InputMismatchException; //ImportException package import
6
7 interface II // Here interface used
8 {
9     abstract public void login(); // abstract methods (body)
10 }
11
12 class vehicle implements II // implementation used           // not required data is not showing      //inheritance achieves
13 {
14     private String numberPlate = "AA XX AA XXXX";           // Data Hiding achieves (Encapsulation)
15     String name; //Non-static variable
16     String price; //Non-static variable
17     String color1; //Non-static variable
18     String color2; //Non-static variable
19     String color3; //Non-static variable
20
21     public void login() //body
22     {
23         System.out.println("for inoformation of our showrow we have provided a link below:" + "\n" + "link: www.youtube.com");
24     }
25
26
27     public vehicle(String name, String price, String color1, String color2, String color3) //super class constructor
28     {
29         this.name = name;
30         this.price = price;
31         this.color1 = color1;
32         this.color2 = color2;
33         this.color3 = color3;
34     }
35
36     public void details() //details method through printing output
37     {
38         System.out.println("BRAND NAME      :" + name);
39         System.out.println("PRICE          :" + price + "-/-");
40         System.out.println("COLOR OPTIONS  :" + color1 + ", " + color2 + ", " + color3 + ", ");
41     }
42
43     public String getNumberplate() // getter method
44     {
45         return numberPlate;
46     }
47
48     public void setnumberPlate(String numberPlate) // setter method
49     {
50         this.numberPlate = numberPlate;
51     }
52 }
53

```

Vishal\_229 [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe [Jar]
\*\*\*\*\*
!!!!.....WELCOME.....!!!!
\*\*\*\*\*
Enter which\_type\_of\_wheeler you want to used
1. Two wheeler
2. Three wheeler
3. Four wheeler
4. Six wheeler

Created with folge.me

## 6 now we select fuel Variante



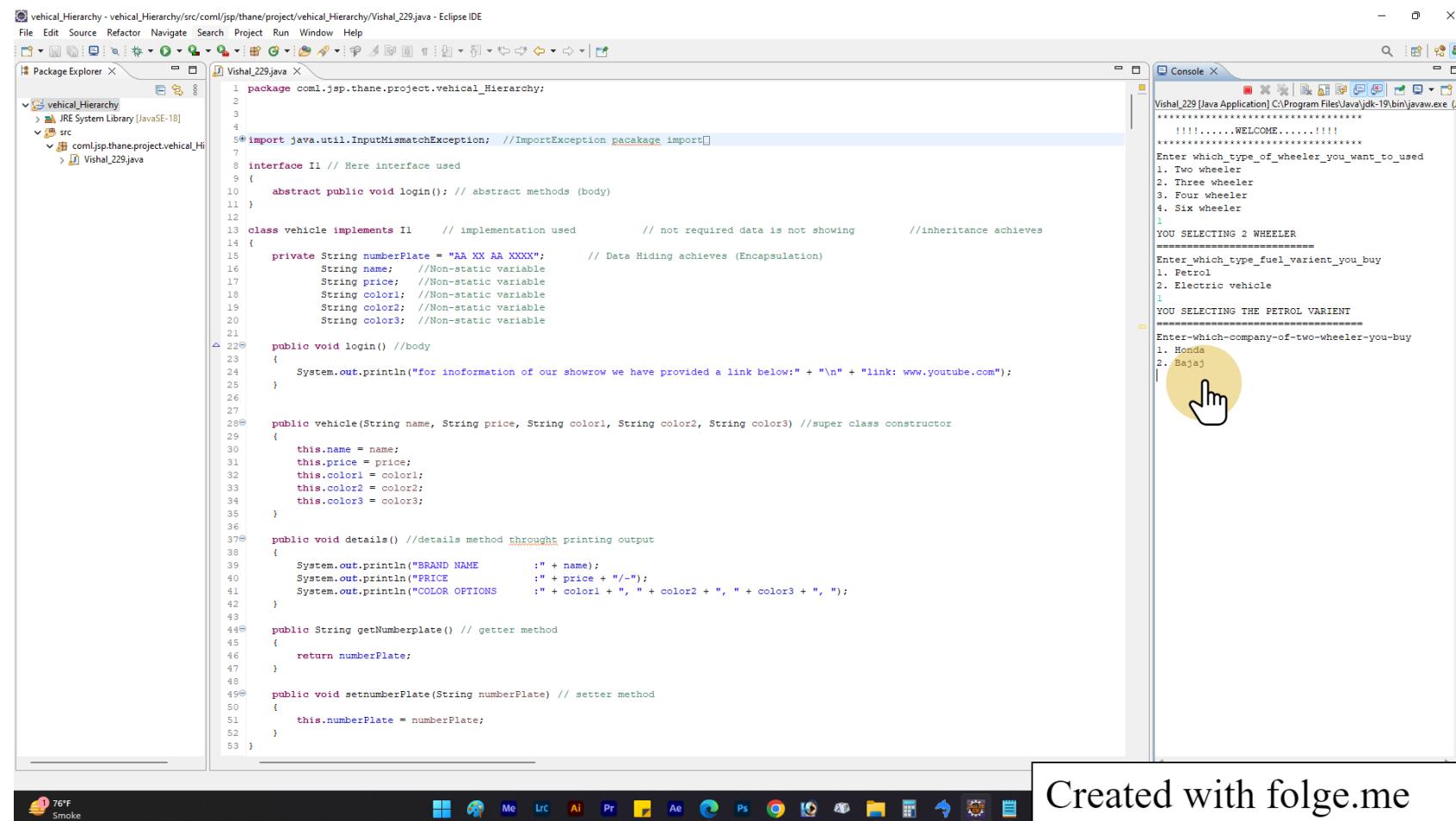
```

1 package com.jsp.thane.project.vehical_Hierarchy;
2
3
4
5 import java.util.InputMismatchException; //ImportException package import
6
7 interface II // Here interface used
8 {
9     abstract public void login(); // abstract methods (body)
10 }
11
12 class vehicle implements II // implementation used           // not required data is not showing      //inheritance achieves
13 {
14     private String numberPlate = "AA XX AA XXXX";           // Data Hiding achieves (Encapsulation)
15     String name; //Non-static variable
16     String price; //Non-static variable
17     String color1; //Non-static variable
18     String color2; //Non-static variable
19     String color3; //Non-static variable
20
21     public void login() //body
22     {
23         System.out.println("for information of our showroo we have provided a link below:" + "\n" + "link: www.youtube.com");
24     }
25
26
27
28     public vehicle(String name, String price, String color1, String color2, String color3) //super class constructor
29     {
30         this.name = name;
31         this.price = price;
32         this.color1 = color1;
33         this.color2 = color2;
34         this.color3 = color3;
35     }
36
37     public void details() //details method through printing output
38     {
39         System.out.println("BRAND NAME      :" + name);
40         System.out.println("PRICE          :" + price + "-/-");
41         System.out.println("COLOR OPTIONS  :" + color1 + ", " + color2 + ", " + color3 + ", ");
42     }
43
44     public String getNumberplate() // getter method
45     {
46         return numberPlate;
47     }
48
49     public void setnumberPlate(String numberPlate) // setter method
50     {
51         this.numberPlate = numberPlate;
52     }
53 }

```

Created with folge.me

## 7 Now we select Vehicle Company name



The screenshot shows the Eclipse IDE interface with the following details:

- Project Explorer:** Shows the package structure: `vehical_Hierarchy` > `src` > `Vishal_229.java`.
- Vishal\_229.java Content:**

```

1 package com.jsp.thane.project.vehical_Hierarchy;
2
3
4
5 import java.util.InputMismatchException; //ImportException package import
6
7 interface II // Here interface used
8 {
9     abstract public void login(); // abstract methods (body)
10 }
11
12 class vehicle implements II // implementation used           // not required data is not showing      //inheritance achieves
13 {
14     private String numberPlate = "AA XX AA XXXX";           // Data Hiding achieves (Encapsulation)
15     String name; //Non-static variable
16     String price; //Non-static variable
17     String color1; //Non-static variable
18     String color2; //Non-static variable
19     String color3; //Non-static variable
20
21     public void login() //body
22     {
23         System.out.println("for information of our showroo we have provided a link below:" + "\n" + "link: www.youtube.com");
24     }
25
26
27     public vehicle(String name, String price, String color1, String color2, String color3) //super class constructor
28     {
29         this.name = name;
30         this.price = price;
31         this.color1 = color1;
32         this.color2 = color2;
33         this.color3 = color3;
34     }
35
36     public void details() //details method through printing output
37     {
38         System.out.println("BRAND NAME      :" + name);
39         System.out.println("PRICE          :" + price + "-/-");
40         System.out.println("COLOR OPTIONS  :" + color1 + ", " + color2 + ", " + color3 + ", ");
41     }
42
43     public String getNumberplate() // getter method
44     {
45         return numberPlate;
46     }
47
48     public void setnumberPlate(String numberPlate) // setter method
49     {
50         this.numberPlate = numberPlate;
51     }
52 }
53 
```
- Console Output:**

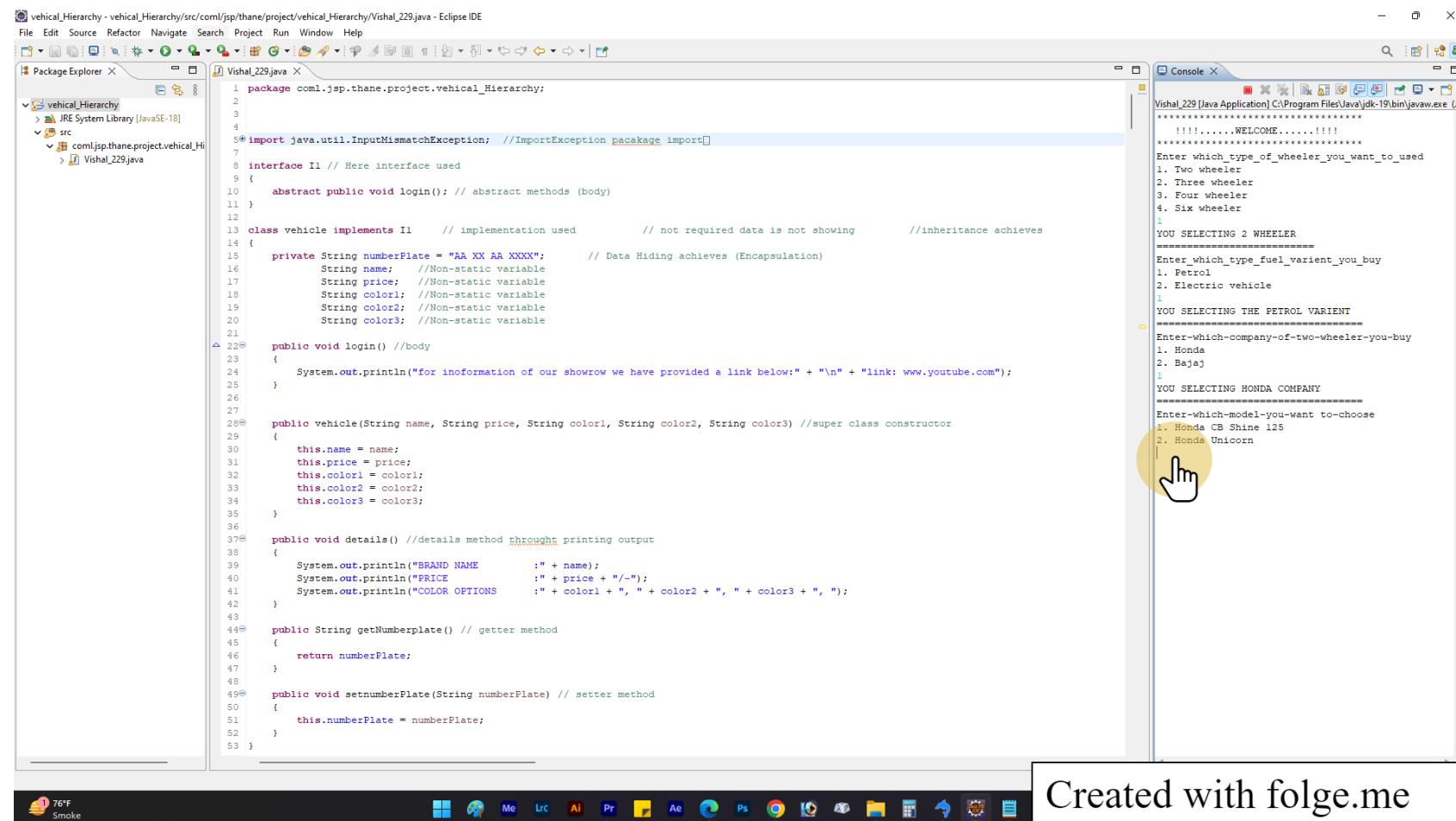
```

Vishal_229 [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe [Jan
*****
!!!!....WELCOME.....!!!!
*****
Enter which_type_of_wheeler_you_want_to_use
1. Two wheeler
2. Three wheeler
3. Four wheeler
4. Six Wheeler
1
YOU SELECTING 2 WHEELER
=====
Enter which_type_fuel_varient_you_buy
1. Petrol
2. Electric vehicle
1
YOU SELECTING THE PETROL VARIENT
=====
Enter-which-company-of-two-wheeler-you-buy
1. Honda
2. Bajaj

```

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## 8 Select the Vehicle Model and get all details of vehicle



The screenshot shows the Eclipse IDE interface with the following components:

- Package Explorer:** Shows the project structure with a package named `com.jsp.thane.project.vehical_Hierarchy` containing a class `Vishal_229.java`.
- Vishal\_229.java:** The code implements a vehicle hierarchy. It includes an interface `II`, a concrete class `vehicle` that implements `II`, and methods for login, details, and numberplate.
- Console:** Displays the output of the Java application. The application starts with a welcome message and asks for the type of wheeler (2-wheeler or 4-wheeler). It then asks for the fuel variant (Petrol or Electric) and the company (Honda or Bajaj). Finally, it asks for the model (CB Shine 125 or Honda Unicorn).

```

1 package com.jsp.thane.project.vehical_Hierarchy;
2
3
4
5 import java.util.InputMismatchException; //ImportException package import
6
7 interface II // Here interface used
8 {
9     abstract public void login(); // abstract methods (body)
10 }
11
12 class vehicle implements II // implementation used           // not required data is not showing      //inheritance achieves
13 {
14     private String numberPlate = "AA XX AA XXXX";           // Data Hiding achieves (Encapsulation)
15     String name; //Non-static variable
16     String price; //Non-static variable
17     String color1; //Non-static variable
18     String color2; //Non-static variable
19     String color3; //Non-static variable
20
21     public void login() //body
22     {
23         System.out.println("for information of our showroo we have provided a link below:" + "\n" + "link: www.youtube.com");
24     }
25
26
27     public vehicle(String name, String price, String color1, String color2, String color3) //super class constructor
28     {
29         this.name = name;
30         this.price = price;
31         this.color1 = color1;
32         this.color2 = color2;
33         this.color3 = color3;
34     }
35
36     public void details() //details method through printing output
37     {
38         System.out.println("BRAND NAME      :" + name);
39         System.out.println("PRICE          :" + price + "-/-");
40         System.out.println("COLOR OPTIONS  :" + color1 + ", " + color2 + ", " + color3 + ", ");
41     }
42
43     public String getNumberplate() // getter method
44     {
45         return numberPlate;
46     }
47
48     public void setnumberPlate(String numberPlate) // setter method
49     {
50         this.numberPlate = numberPlate;
51     }
52 }
53

```

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## 9 Here we put number plate number as per our requirement

The screenshot shows the Eclipse IDE interface with the following details:

- Project Explorer:** Shows the project structure under "vehical\_Hierarchy".
- Vishal\_229.java:** The code implements a vehicle class that interacts with a vehicle interface. It includes methods for login, setting and getting number plates, and displaying vehicle details.
- Console:** Displays the output of the Java application. The program starts with a welcome message and asks for the type of wheeler. It then asks for the fuel variant and company. Finally, it selects the Honda CB Shine 125 model and provides its specifications.

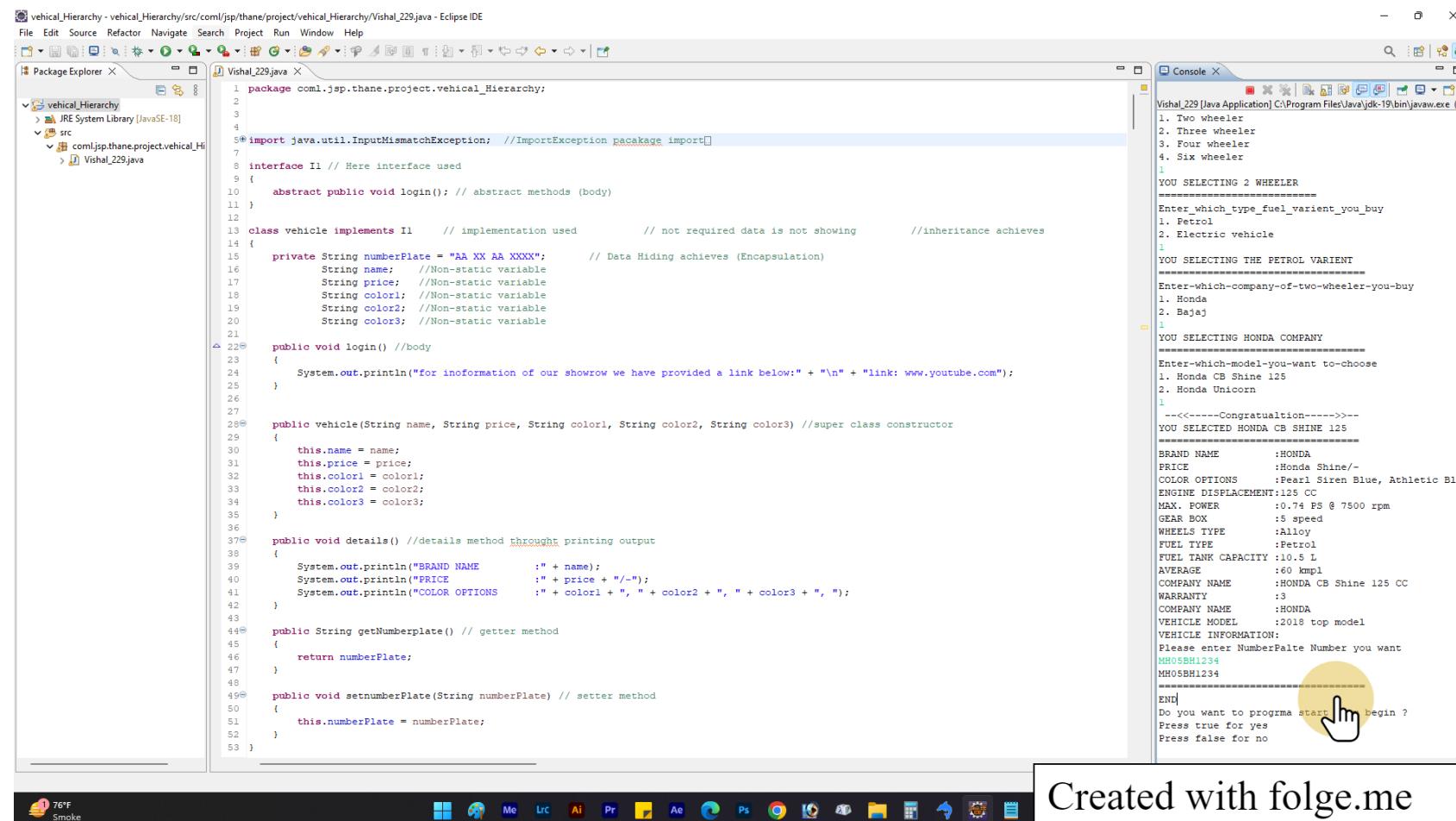
```

1 package com.jsp.thane.project.vehical_Hierarchy;
2
3
4
5 import java.util.InputMismatchException; //ImportException package import
6
7 interface II { // Here interface used
8
9     abstract public void login(); // abstract methods (body)
10 }
11
12 class vehicle implements II { // implementation used // not required data is not showing //inheritance achieves
13
14     private String numberPlate = "AA XX AA XXXX"; // Data Hiding achieves (Encapsulation)
15     String name; //Non-static variable
16     String price; //Non-static variable
17     String color1; //Non-static variable
18     String color2; //Non-static variable
19     String color3; //Non-static variable
20
21
22     public void login() { //body
23
24         System.out.println("for information of our showroo we have provided a link below:" + "\n" + "link: www.youtube.com");
25     }
26
27
28     public vehicle(String name, String price, String color1, String color2, String color3) { //super class constructor
29
30         this.name = name;
31         this.price = price;
32         this.color1 = color1;
33         this.color2 = color2;
34         this.color3 = color3;
35     }
36
37     public void details() { //details method through printing output
38
39         System.out.println("BRAND NAME : " + name);
40         System.out.println("PRICE : " + price + "-/-");
41         System.out.println("COLOR OPTIONS : " + color1 + ", " + color2 + ", " + color3 + ", ");
42     }
43
44     public String getNumberplate() { // getter method
45
46         return numberPlate;
47     }
48
49     public void setnumberPlate(String numberPlate) { // setter method
50
51         this.numberPlate = numberPlate;
52     }
53 }

```

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# 10 IF you want reacess the app type true otherwise you press false



```

1 package com.jsp.thane.project.vehical_Hierarchy;
2
3
4
5 import java.util.InputMismatchException; //ImportException package import
6
7 interface II // Here interface used
8 {
9     abstract public void login(); // abstract methods (body)
10 }
11
12 class vehicle implements II // implementation used           // not required data is not showing      //inheritance achieves
13 {
14     private String numberPlate = "AA XX AA XXXX";           // Data Hiding achieves (Encapsulation)
15     String name; //Non-static variable
16     String price; //Non-static variable
17     String color1; //Non-static variable
18     String color2; //Non-static variable
19     String color3; //Non-static variable
20
21     public void login() //body
22     {
23         System.out.println("for information of our showroo we have provided a link below:" + "\n" + "link: www.youtube.com");
24     }
25
26
27
28     public vehicle(String name, String price, String color1, String color2, String color3) //super class constructor
29     {
30         this.name = name;
31         this.price = price;
32         this.color1 = color1;
33         this.color2 = color2;
34         this.color3 = color3;
35     }
36
37     public void details() //details method through printing output
38     {
39         System.out.println("BRAND NAME      :" + name);
40         System.out.println("PRICE          :" + price + "-/-");
41         System.out.println("COLOR OPTIONS  :" + color1 + ", " + color2 + ", " + color3 + ", ");
42     }
43
44     public String getNumberplate() // getter method
45     {
46         return numberPlate;
47     }
48
49     public void setnumberPlate(String numberPlate) // setter method
50     {
51         this.numberPlate = numberPlate;
52     }
53 }

```

YOU SELECTING 2 WHEELER  
=====  
Enter\_which\_type\_fuel\_varient\_you\_buy  
1. Petrol  
2. Electric vehicle  
1  
YOU SELECTING THE PETROL VARIENT  
=====  
Enter\_which-company-of-two-wheeler-you-buy  
1. Honda  
2. Bajaj  
1  
YOU SELECTING HONDA COMPANY  
=====  
Enter\_which-model-you-want-to-choose  
1. Honda CB Shine 125  
2. Honda Unicorn  
1  
---<----Congratulation----->---  
YOU SELECTED HONDA CB SHINE 125  
=====  
BRAND NAME :HONDA  
PRICE :Honda Shine/-  
COLOR OPTIONS :Pearl Siren Blue, Athletic Bl  
ENGINE DISPLACEMENT:125 CC  
MAX. POWER :0.74 PS @ 7500 rpm  
GEAR BOX :5 speed  
WHEELS TYPE :Alloy  
FUEL TYPE :Petrol  
FUEL TANK CAPACITY :10.5 L  
AVERAGE :60 kmpl  
COMPANY NAME :HONDA CB Shine 125 CC  
WARRANTY :3  
COMPANY NAME :HONDA  
VEHICLE MODEL :2018 top model  
VEHICLE INFORMATION:  
Please enter NumberPlate Number you want  
MH05BH1234  
MH05BH1234  
=====  
END|  
Do you want to program start begin ?  
Press true for yes  
Press false for no

Created with folge.me

## 11 end

```

1 package com.jsp.thane.project.vehical_Hierarchy;
2
3
4
5 import java.util.InputMismatchException; //ImportException package import
6
7 interface II // Here interface used
8 {
9     abstract public void login(); // abstract methods (body)
10 }
11
12 class vehicle implements II // implementation used           // not required data is not showing      //inheritance achieves
13 {
14     private String numberPlate = "AA XX AA XXXX";           // Data Hiding achieves (Encapsulation)
15     String name; //Non-static variable
16     String price; //Non-static variable
17     String color1; //Non-static variable
18     String color2; //Non-static variable
19     String color3; //Non-static variable
20
21     public void login() //body
22     {
23         System.out.println("for inoformation of our showrow we have provided a link below:" + "\n" + "link: www.youtube.com");
24     }
25
26
27
28     public vehicle(String name, String price, String color1, String color2, String color3) //super class constructor
29     {
30         this.name = name;
31         this.price = price;
32         this.color1 = color1;
33         this.color2 = color2;
34         this.color3 = color3;
35     }
36
37     public void details() //details method through printing output
38     {
39         System.out.println("BRAND NAME      :" + name);
40         System.out.println("PRICE          :" + price + "-/-");
41         System.out.println("COLOR OPTIONS   :" + color1 + ", " + color2 + ", " + color3 + ", ");
42     }
43
44     public String getNumberplate() // getter method
45     {
46         return numberPlate;
47     }
48
49     public void setnumberPlate(String numberPlate) // setter method
50     {
51         this.numberPlate = numberPlate;
52     }
53 }

```

YOU SELECTING THE PETROL VARIENT  
=====  
Enter-which-company-of-two-wheeler-you-buy  
1. Honda  
2. Bajaj  
1  
YOU SELECTING HONDA COMPANY  
=====  
Enter-which-model-you-want-to-choose  
1. Honda CB Shine 125  
2. Honda Unicorn  
1  
---<----Congratulation--->--  
YOU SELECTED HONDA CB SHINE 125  
=====  
BRAND NAME :HONDA  
PRICE :Honda Shine/-  
COLOR OPTIONS :Pearl Siren Blue, Athletic Bl  
ENGINE DISPLACEMENT:125 CC  
MAX. POWER :0.74 PS @ 7500 rpm  
GEAR BOX :5 speed  
WHEELS TYPE :Alloy  
FUEL TYPE :Petrol  
FUEL TANK CAPACITY :10.5 L  
AVERAGE :60 kmpl  
COMPANY NAME :HONDA CB Shine 125 CC  
WARRANTY :3  
COMPANY NAME :HONDA  
VEHICLE MODEL :2018 top model  
VEHICLE INFORMATION:  
Please enter NumberPlate Number you want  
MH05BH1234  
MH05BH1234  
=====  
END  
Do you want to program start from begin ?  
Press true for yes  
Press false for no  
true  
\*\*\*\*\*  
!!!!.....WELCOME.....!!!!  
\*\*\*\*\*  
Enter which\_type\_of\_wheeler\_you\_want\_to\_use  
1. Two Wheeler  
2. Three Wheeler  
3. Four Wheeler  
4. Six Wheeler

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