

ASSIGNMENT-15

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The screenshot shows an IDE with the Package Explorer on the left, a code editor in the center, and a console on the right. The Package Explorer shows a project named 'com.compiletime' with a package 'com.compiletime' containing files 'Customer.java', 'DomesticAnimal.java', 'Test.java', 'TestVehicle.java', and 'module-info.java'. The code editor displays the following Java code:

```
1 package com.compiletime;
2
3 class Animal
4 {
5     void speak()
6     {
7         System.out.println("The animal make sound");
8     }
9
10    void speak(String animalType)
11    {
12        System.out.println("The "+animalType+"makes a sound");
13    }
14
15    void speak(String animalType,int times)
16    {
17        System.out.println("The " +animalType+"makes a sound"+"says"+times);
18    }
19
20 }
21
22 public class DomesticAnimal {
23
24     public static void main(String[] args) {
25
26         System.out.println("start");
27
28         Animal a = new Animal();
29
30         a.speak();
31         a.speak("Dog");
32         a.speak("cat", 3);
33
34
35
36         System.out.println("end");
37
38     }
39
40 }
41
```

The console on the right shows the output of the program:

```
<terminated> TestVehicle (1) [Java Ap
Bike is moving Fast
Car is moving comfortably
Vehicle is moving
```

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```
1 package com.compiletime;
2
3 class Vehicle
4 {
5     void move() {
6         System.out.println("Vechicle is moving");
7     }
8 }
9
10 class Bike extends Vehicle
11 {
12     void move()
13     {
14         System.out.println("Bike is moving Fast");
15     }
16 }
17
18 class car extends Vehicle
19 {
20     void move() {
21         System.out.println("Car is moving comfortably");
22     }
23 }
24
25 public class TestVehicle {
26
27     public static void main(String[] args) {
28
29
30         Vechicle v = new Bike();
31         v.move();
32
33         v=new car();
34         v.move();
35
36         v=new Vehicle();|
37         v.move();
38
39     }
40
41 }
42
```

The console on the right shows the output of the program:

```
<terminated> TestVehicle (1) [Java Ap
Bike is moving Fast
Car is moving comfortably
Vechicle is moving
```