

ASSIGNMENT-17

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The screenshot shows an IDE with the following components:

- Package Explorer:** Shows a project structure with a package `com.vs4u` containing `Forest.java` and `User.java`.
- Editor:** Displays the code for `Forest.java`. The code defines an abstract class `Animal` with methods `makeSound()` and `eat()`. An abstract class `Dog` extends `Animal` and implements `makeSound()`. A concrete class `Forest` extends `Dog` and implements both `makeSound()` and `Dog()`. A `main` method creates a `Forest` object and calls these methods.
- Console:** Shows the output of the program: `<terminated> Forest (1) [Java Applic`, `cat Meows`, `Dog barks`, and `This animal eats food`.

```
1 package com.vs4u;
2
3 abstract class Animal{
4
5     abstract void makeSound();
6
7     void eat() {
8         System.out.println("This animal eats food");
9     }
10 }
11
12 abstract class Dog extends Animal{
13
14     abstract void Dog();
15 }
16
17 public class Forest extends Dog {
18
19     @Override
20     void makeSound() {
21         System.out.println("cat Meows");
22     }
23
24     @Override
25     void Dog() {
26         System.out.println("Dog barks");
27     }
28
29     public static void main(String[] args) {
30
31         Forest f = new Forest();
32
33         f.makeSound();
34         f.Dog();
35         f.eat();
36
37     }
38
39 }
40
41 }
42 }
```

The screenshot shows an IDE with the following components:

- Package Explorer:** Shows a project structure with a package `com.vs4u` containing `Forest.java`, `Hotel.java`, `User.java`, and `Test.java`.
- Editor:** Displays the code for `Hotel.java`. The code defines an abstract class `Food` with a `Food()` method. A concrete class `Dosa` extends `Food` and implements the `Food()` method. A concrete class `Hotel` contains a `main` method that creates a `Dosa` object and calls its `Food()` method.
- Console:** Shows the output of the program: `<terminated> Hotel [Java Application] C:\Program Files\Ja`, `Idly`, and `1 Plate dosa!.....Parcel`.

```
1 package com.vs4u;
2
3 abstract class Food
4 {
5
6     Food(){
7         System.out.println("Idly");
8     }
9 }
10
11
12 class Dosa extends Food
13 {
14
15     Dosa()
16     {
17         System.out.println("1 Plate dosa!.....Parcel ");
18     }
19 }
20
21 public class Hotel {
22
23     public static void main(String[] args) {
24
25         Dosa d = new Dosa();
26
27         |
28
29     }
30
31 }
32 }
```