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02_Polymorphism\Main.java

```
1
   /*
 2
   Polymorphism:
   - One method, many behaviors/forms.
3
4
5
   Runtime Polymorphism:
   - Method is determined during execution.
6
7
   Compile-time Polymorphism:
8
9
   - Method is determined during compilation.
10
11
   Constructors:
   - Special methods to create and initialize objects.
12
13
14 | Static Keywords:
15
   - Access class data without creating an object.
   - Data is shared by all objects.
16
17
18 This Keyword:
19
    - Refers to the current object.
   - Used to return the current object from a method.
20
21
   */
22
23
   class Polymorphism {
24
      String name;
25
26
      int age;
27
      static int count;
28
      //constructor
29
30
      public Polymorphism(String name, int age){
31
      count++;
32
      System.out.println("I am a constructor.");
33
      this.name = name;
34
      this.age = age;
35
      }
36
37
      void eat(){
      System.out.println(name + " is eating");
38
39
      }
40
41
      void eat(String food){
      System.out.println(name + " is eating " + food);
42
43
      }
44
      }
45
      public class Main {
46
47
      public static void main(String[] args) {
      Polymorphism person = new Polymorphism("Ali", 22);
48
49
      //This is an example of Polymorphism: same method name, different behaviors
      person.eat();
50
      person.eat("Paratha");
51
52
      System.out.println(Polymorphism.count);
53
```

Main.java

54 }