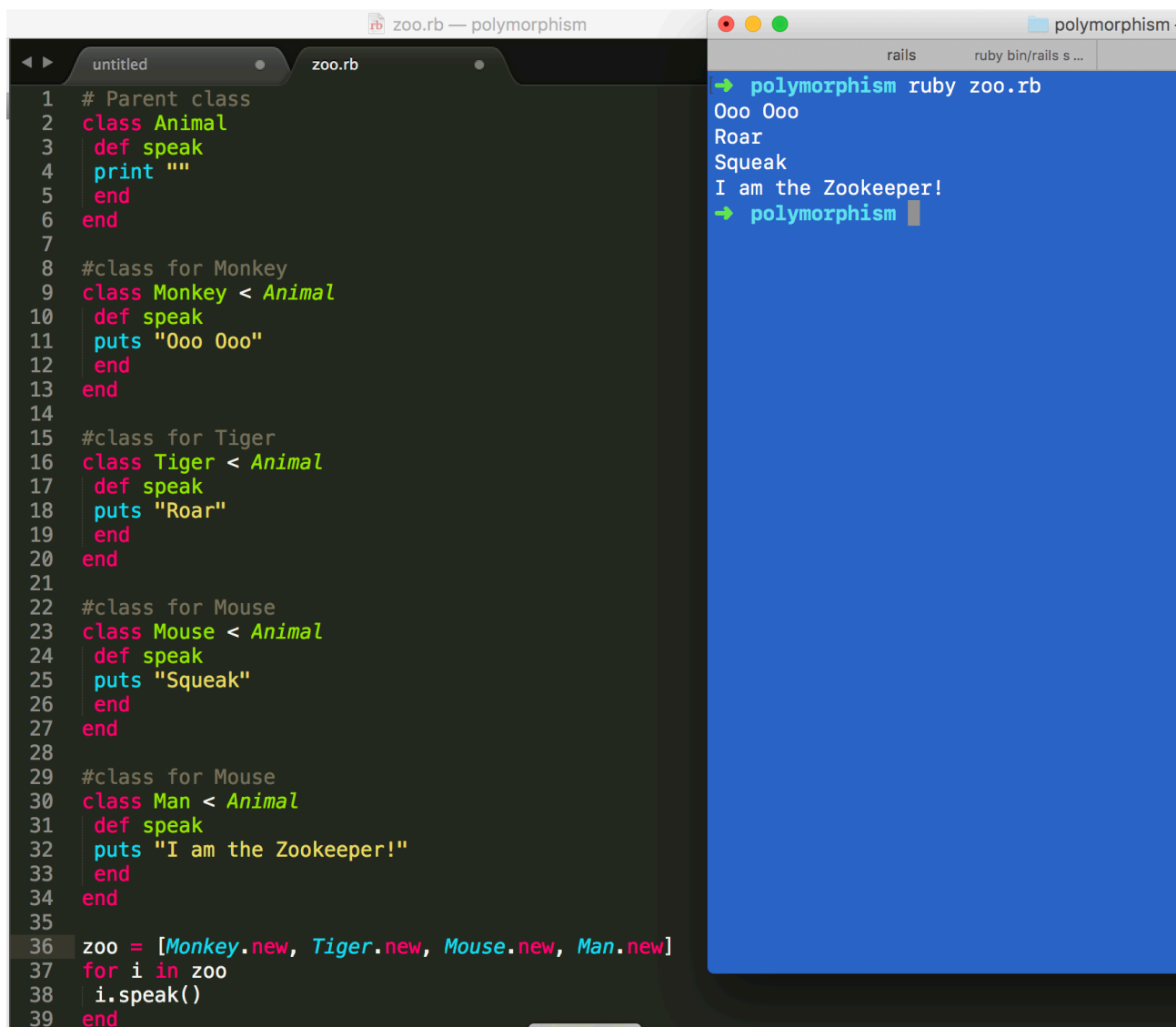


I.T.f

Polymorphism Example

- Carry out a Polymorphism task(T.1) or demonstrate use of Polymorphism in a program you have written.

Polymorphism is the ability of an object to take on many forms. The most common use of polymorphism in OOP occurs when a parent class reference is used to refer to a child class object.



```
zoo.rb — polymorphism
1 # Parent class
2 class Animal
3   def speak
4     print ""
5   end
6 end
7
8 #class for Monkey
9 class Monkey < Animal
10   def speak
11     puts "Ooo Ooo"
12   end
13 end
14
15 #class for Tiger
16 class Tiger < Animal
17   def speak
18     puts "Roar"
19   end
20 end
21
22 #class for Mouse
23 class Mouse < Animal
24   def speak
25     puts "Squeak"
26   end
27 end
28
29 #class for Mouse
30 class Man < Animal
31   def speak
32     puts "I am the Zookeeper!"
33   end
34 end
35
36 zoo = [Monkey.new, Tiger.new, Mouse.new, Man.new]
37 for i in zoo
38   i.speak()
39 end
```

```
polymorphism
→ polymorphism ruby zoo.rb
Ooo Ooo
Roar
Squeak
I am the Zookeeper!
→ polymorphism
```