

Discussion Questions for “Introduction to Object Orientation”

1. For all the different programming languages you have used, what programming paradigm do those languages fit into?
2. What programming paradigm is most intuitive? What paradigm is least intuitive? Why?
3. In the declarative programming paradigm, variables are usually “immutable”; once they have been assigned a value, you are not allowed to change that value. Looking at the functional language implementation of factorial, is the variable, “x” immutable?
4. In the video, the professor claimed that in general, all programming languages in all programming paradigms are equally expressive – that is, I can solve almost any given problem using any programming language. Do you believe that claim? How might that claim be proved?
5. Have you ever heard the expression, “When all you have is a hammer, everything looks like a nail”? What happens when you get a screw? In Java, all we have is objects, so everything looks like a class. What kinds of “screws” do we get when we implement code in Java?
6. If you were asked to write a Java program about bank accounts, what kinds of classes might you create? For each class, what are the set of fields you would use to describe that class? What methods might you implement for that class?