

1. What are the four pillars of Object-Oriented Programming? Explain each pillar.
 - a. Abstraction
 - i. Showing only the necessary details to the user. Don't show the user the backend of the application.
 - b. Encapsulation
 - i. Hide values or states of data objects inside a class. Not letting outsiders access them
 - c. Inheritance
 - i. Let's you re-use code from other classes instead of reiterating code.
 - d. Polymorphism
 - i. You can perform a task in many ways.
2. What is unit testing and why is it important?
 - a. It's a software development process in which code is broken into units and examined thoroughly
 - b. It is important to have unit tests since code is always changing and we need to check if the code is still working after the changes

Links:

<https://blog.knoldus.com/understanding-the-concept-of-oop-its-four-pillars/#oops-four-pillars>

<https://www.mygreatlearning.com/blog/polymorphism-in-java/#:~:text=Polymorphism%20is%20a%20feature%20of,implementations%20by%20defining%20one%20interface.>

<https://www.techtarget.com/searchsoftwarequality/definition/unit-testing#:~:text=The%20main%20objective%20of%20unit,find%20in%20later%20testing%20stages.>