

Please answer these questions in your own words.

- 1) What is a Python class? Define a class with an example
- 2) Explain the purpose of the self-parameter in Python class methods.
- 3) What are Python objects, and how are they created?
- 4) Explain the difference between a class and an object in Python?
- 5) What is a constructor in Python?
- 6) What is inheritance in Python object-oriented programming?  
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- 7) How to create a subclass (derived class) from a superclass (base class) in Python?
- 8) Explain the concept of Python method overriding in inheritance.
- 9) What is method overloading in Python?
- 10) How is polymorphism achieved in Python?
- 11) What is encapsulation in OOP?
- 12) How does encapsulation provide data hiding in Python?
- 13) How do you create private attributes in a Python class?
- 14) What is abstraction in OOP (Python)?