- Due Oct 14 at 11:59pm
- Points 10
- Questions 10
- Available until Oct 16 at 11:59pm
- Time Limit None
- Allowed Attempts 3

Instructions

- 1. Complete the <u>Week 07 Learning Activity (https://byui-cse.github.io/cse210-ww-course/week07/prepare.html)</u>.
- 2. Submit this quiz to demonstrate your understanding of the material.
- 3. Conditions: You are welcome to use notes and the course materials while taking this quiz.

Take the Quiz Again

Attempt History

	Attempt	Time	Score
LATEST	Attempt 1	2 minutes	10 out of 10

(!) Correct answers are hidden.

Score for this attempt: 10 out of 10

Submitted Oct 15 at 12:13pm

This attempt took 2 minutes.

Question 1

1 / 1 pts

What is inheritance in programming?

- The use of the keyword 'base' to define a class.
- An approach to protect member variables
- The ability to access private data directly.
- The process by which a class acquires properties and methods of another class.

Question 2

1 / 1 pts

What is the correct term for a class that inherits from another class?

Abstract class

Derived class Ouis submitted.
O Parent class Quiz submitted
O Base class
Question 3
1 / 1 pts
Which access modifier allows access to a variable only by the class itself and any classes derived from
it?
private
○ internal
O public
protected
Question 4
1 / 1 pts
What does the Liskov Substitution Principle refer to?
The idea that classes should not be inherited from other classes.
The idea that methods should only be overridden if they are empty in the base class.
The idea that a public method should substitute for private variables.
The idea that derived classes should be able to be used anywhere the base class is used.
Question 5
1 / 1 pts What is one major caution when using inheritance?
Derived classes can always access private data from the base class.
Inheritance eliminates the need for polymorphism.
Deep inheritance chains can make the code hard to manage.
Inheritance can make a program run dramatically slower.
inheritance can make a program run dramatically slower.
uestion 6
1 / 1 pts
What is an example of polymorphism in programming?
When the same line of code can call different functions depending on the context.
When more than one class is derived from a single base class.
○ When the same kind of variable can be reused in different places in a program.
○ When the same method can be called from multiple places in a program.

Question 7		
1 / 1 pts Quiz submitted		
What does method overriding allow a derived class to do?		
Change the behavior of a method inherited from the base class.		
Prevent method inheritance from the base class.		
Implement multiple inheritance.		
Use the same method name with different parameters.		
Question 8		
1 / 1 pts		
What is an abstract method?		
A method that provides a default implementation in a base class.		
A method that cannot be inherited.		
A method that cannot be overridden.		
A method with no body that must be implemented by derived classes		
Question 9		
1/1 pts When everyding a method from a base class, can you define different types of parameters than these		
When overriding a method from a base class, can you define different types of parameters than those from the base class?		
No, you must use the exact same order and data types for the parameters.		
No, you cannot have parameters in method that overrides a base class method.		
Yes, you can add new parameters as long as the original ones are still present.		
Yes, you can define any parameters you like.		
Question 10		
1 / 1 pts		
If a function receives a base class object as a parameter (for example, `Employee`), but when it is called, the calling code passes a derived class object (for example, `HourlyEmployee`), which methods can be called in the function?		
Any method from either the base or the derived class.		
Only those explicitly defined in the base class.		
Only those explicitly defined in the derived class.		
None. (An error will occur in this case.)		

Quiz Score: 10 out of 10