Quiz 8 – Inheritance

1. Which term describes a class that inherits from another class?
   (This was discussed in lecture "Intro to Inheritance [SLIDES]")
   a. Superclass
   b. Sibling class
   c. Subclass
   d. Parallel class

   Correct Answer: Option c - Subclass
   Explanation:
   Option a – Incorrect answer. Please try again.
   Option b – Incorrect answer. Please try again.
   Option c – Good job!
   Option d – Incorrect answer. Please try again.

2. Say I have a program with a Dog class that inherits from an Animal class. What is the superclass?
   (This was discussed in lecture "Intro to Inheritance [SLIDES]")
   a. Dog
   b. Animal
   c. Neither
   d. Both

   Correct Answer: Option b - Animal
   Explanation:
   Option a – Incorrect answer. Please try again.
   Option b – Good job!
   Option c – Incorrect answer. Please try again.
   Option d – Incorrect answer. Please try again.

3. Which method returns the hierarchy of ancestor classes for a given class?
   (This was discussed in lecture "The superclass and ancestors Class Methods")
   a. parentage
   b. tree
   c. ancestors
   d. lineage

   Correct Answer: Option c - ancestors
   Explanation:
   Option a – Incorrect answer. Please try again.
   Option b – Incorrect answer. Please try again.
   Option c – Good job!
   Option d – Incorrect answer. Please try again.

4. Which method determines if an object is an instance of a particular class or its subclasses?
   (This was discussed in lecture "The is_a? and instance_of? Methods")
   a. `is_a?`
   b. `belongs_to?`
   c. `type_of?`

d. `part_of?`

Correct Answer: Option a – `is_a?`

Explanation:

Option a – Good job!

Option b – Incorrect answer. Please try again.

Option c – Incorrect answer. Please try again.

Option d - Incorrect answer. Please try again.

5. What is the technical term for when a subclass defines a method with the same name as a method in its superclass?
   (This was discussed in lecture "Override Methods in a Subclass")
   a. Mirroring
   b. Duplicating
   c. Shadowing
   d. Overriding

Correct Answer: Option d – Overriding

Explanation:

Option a – Incorrect answer. Please try again.

Option b – Incorrect answer. Please try again.

Option c – Incorrect answer. Please try again.

Option d – Good job!

6. What symbol designates that a subclass inherits from a superclass?
   (This was discussed in lecture "Create Subclasses")
   a. ::
   b. <=>
   c. >
   d. <

Correct Answer: Option d - <

Explanation:

Option a – Incorrect answer. Please try again.

Option b – Incorrect answer. Please try again.

Option c – Incorrect answer. Please try again.

Option d – Good job!

7. What does the super keyword do?
   (This was discussed in lecture "The super Keyword I")
   a. Override a method on the superclass.
   b. Call a method on the sibling class.
   c. Call the same method from the superclass.
   d. Give your code super powers.

Correct Answer: Option c – Call the same method from the superclass.

Explanation:

Option a – Incorrect answer. Please try again.

Option b – Incorrect answer. Please try again.

Option c – Good job!

Option d – Incorrect answer. Please try again.

8. What syntax do we use to call a superclass method and pass along any arguments that were given to the subclass method?
   (This was discussed in lecture "The super Keyword II")
   a. `super()`
   b. `super`
   c. `super(args)`

   Correct Answer: Option b - `super`

   Explanation:

   Option a – Incorrect answer. Please try again.

   Option b – Good job!

   Option c – Incorrect answer. Please try again.

9. What method should be overridden to define equality for custom objects?
   (This was discussed in lecture "Defining Equality")
   a. `==`
   b. `equal?`
   c. `same?`
   d. `identical?`

   Correct Answer: Option a - `==`

   Explanation:

   Option a – Good job!

   Option b – Incorrect answer. Please try again.

   Option c – Incorrect answer. Please try again.

   Option d – Incorrect answer. Please try again.