PythonInstitute PCPP-32-101 Exam

PCPP1 - Certified Professional in Python Programming 1

Questions & Answers Demo

Version: 4.0

Question: 1

Select the true statement about composition

A. Composition extends a class's capabilities by adding new components and modifying the existing ones.

B. Composition allows a class to be projected as a container of different classes

- C. Composition is a concept that promotes code reusability while inheritance promotes encapsulation.
- D. Composition is based on the has a relation: so it cannot be used together with inheritance.

Answer: B

Explanation:

Composition is an object-oriented design concept that models a has-a relationship. In composition, a class known as composite contains an object of another class known as component. In other words, a composite class has a component of another class<u>1</u>.

1. Composition allows a class to be projected as a container of different classes.

Composition is a concept in Python that allows for building complex objects out of simpler objects, by aggregating one or more objects of another class as attributes. The objects that are aggregated are generally considered to be parts of the whole object, and the containing object is often viewed as a container for the smaller objects.

In composition, objects are combined in a way that allows for greater flexibility and modifiability than what inheritance can offer. With composition, it is possible to create new objects by combining existing objects, by using a container object to host other objects. By contrast, with inheritance, new objects extend the behavior of their parent classes, and are limited by that inheritance hierarchy.

Reference:

Official

documentation

on

Composition: https://docs.python.org/3/tutorial/classes.html#composition

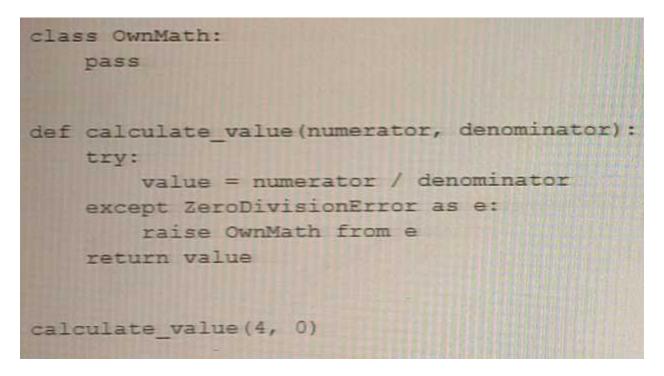
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GeeksforGeeks article on Composition vs Inheritance: <u>https://www.geeksforgeeks.org/composition-vs-inheritance-python/</u>

Real Python article on Composition and Inheritance: <u>https://realpython.com/inheritance-composition-python/</u>

Question: 2

Analyze the following snippet and select the statement that best describes it.



A. The code is an example of implicitly chained exceptions.

- B. The code is erroneous as the OwnMath class does not inherit from any Exception type class
- C. The code is fine and the script execution is not interrupted by any exception.
- D. The code is an example of explicitly chained exceptions.

Answer: D

Explanation:

In the given code snippet, an instance of OwnMath exception is raised with an explicitly specified __cause__ attribute that refers to the original exception (ZeroDivisionError). This is an example of explicitly chaining exceptions in Python.

Question: 3

Analyze the following snippet and choose the best statement that describes it.

class Sword: var1 = 'weapon' def init (self): self.name = 'Excalibur'

- A. self. name is the name of a class variable.
- B. varl is the name of a global variable
- C. Excalibur is the value passed to an instance variable

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D. Weapon is the value passed to an instance variable

Answer: C

Explanation:

The correct answer is C. Excalibur is the value passed to an instance variable. In the given code snippet, self.name is an instance variable of the Sword class. When an instance of the Sword class is created with varl = Sword('Excalibur'), the value 'Excalibur' is passed as an argument to the __init__ method and assigned to the name instance variable of the varl object.

The code defines a class called Sword with an __init__ method that takes one parameter name. When a new instance of the Sword class is created with varl = Sword('Excalibur'), the value of the 'Excalibur' string is passed as an argument to the __init__ method, and assigned to the self.name instance variable of the varl object.

Reference:

Official Python documentation on Classes: https://docs.python.org/3/tutorial/classes.html

Question: 4

The following snippet represents one of the OOP pillars Which one is that?

```
class A:
    def run(self):
        print("A is running")
class B:
    def fly(self):
        print("B is flying")
class C:
    def run(self):
        print("C is running")
for element in A(), B(), C():
        element.run()
```

A. SerializationB. InheritanceC. EncapsulationD. Polymorphism

Answer: C

Explanation:

The given code snippet demonstrates the concept of encapsulation in object-oriented programming. Encapsulation refers to the practice of keeping the internal state and behavior of an object hidden from the outside world and providing a public interface for interacting with the object. In the given code snippet, the __init__ and get_balance methods provide a public interface for interacting with instances of the BankAccount class, while the __balance attribute is kept hidden from the outside world by using a double underscore prefix.

Question: 5

Analyze the following function and choose the statement that best describes it.

def my decorator (coating): def level1 wrapper(my function): def level2 wrapper(*args): our function (*args) return level2 wrapper return level1 wrapper

A. It is an example of a decorator that accepts its own arguments.

B. It is an example of decorator stacking.

C. It is an example of a decorator that can trigger an infinite recursion.

D. The function is erroneous.

Answer: A

Explanation:

In the given code snippet, the repeat function is a decorator that takes an argument num_times specifying the number of times the decorated function should be called. The repeat function returns an inner function wrapper_repeat that takes a function func as an argument and returns another inner function wrapper that calls func num_times times.

The provided code snippet represents an example of a decorator that accepts its own arguments. The @decorator_function syntax is used to apply the decorator_function to the some_function function. The decorator_function takes an argument arg1 and defines an inner function wrapper_function that takes the original function func as its argument. The wrapper_function then returns the result of calling func, along with the arg1 argument passed to the decorator_function.

Here is an example of how to use this decorator with some_function:

@decorator_function("argument 1")

def some_function():

return "Hello world"

When some_function is called, it will first be passed as an argument to the decorator_function. The decorator_function then adds the string "argument 1" to the result of calling some_function() and returns the resulting string. In this case, the final output would be "Hello world argument 1". Reference:

Official Python documentation on Decorators: https://docs.python.org/3/glossary.html#term-decorator

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