

Polymorphism and Abstraction

Total points 9/9

Theory test about

Polymorphism and Abstraction in Python.

✓ What is polymorphism in Python? *

1/1

- ☒ The ability of an object to take on many forms ✓
- ☐ The process of converting data types
- ☐ The ability of an object to inherit from multiple classes
- ☐ The process of breaking down a complex problem into smaller sub-problems

✓ What is abstraction in Python? *

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- ☐ A technique for controlling access to class members
- ☒ The process of hiding the implementation details of a class ✓
- ☐ A technique for reducing the size of an object
- ☐ A process of adding new features to a class



✓ What is overloading in Python? *

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- ☐ The process of assigning multiple values to a variable
- ☐ The process of creating multiple instances of a class
- ☒ The process of changing the behavior of functions by creating new functions with the same name.. ✓
- ☐ The process of hiding the implementation details of a class

✓ What is duck typing in Python? *

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- ☐ The process of determining an object's type at runtime
- ☐ The process of explicitly specifying the type of an object
- ☐ The process of checking the type of an object before using it
- ☒ The process of checking for the presence of a given method or attribute no matter the object's type. ✓

✓ Which module is used to define abstract classes in Python? *

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- ☐ os module
- ☒ abc module ✓
- ☐ sys module
- ☐ math module



✓ What is the purpose of @abstractmethod decorator in Python? * 1/1

- ☐ To mark a method as a static method
- ☐ To mark a method as a class method
- ☒ To mark a method as an abstract method
- ☐ To mark a method as a private method



✓ What method is used to overload "+"? * 1/1

- ☐ __plus__
- ☒ __add__
- ☐ __sum__
- ☐ __increment__



✓ What is the purpose of abstract classes in Python? * 1/1

- ☒ To provide a blueprint for other classes to follow
- ☐ To prevent instances of the class from being created
- ☐ To provide a mechanism for multiple inheritance
- ☐ To provide a way to define methods with default implementations



✓ What is the purpose of the isinstance() function in Python? *

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- ☐ To check if a method has been overridden in a subclass
- ☐ To check if an object is of a particular type
- ☒ To check if an object is an instance of a particular class
- ☐ To check if a method has been overridden in a class



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