

1. True or False: A class can serve as a base class for many derived classes.

1 / 1 point

☒ True

☐ False

☒ Correct

Correct! Theoretically it can be superclass for infinite subclasses.

2. In case of multiple inheritance where C is a derived class inheriting from both class A and B, and where a and b are the respective objects for these classes, which of the following code will inherit the classes A and B correctly? (Select all that apply)

1 / 1 point

☒ class C(B, A)

☒ Correct

Correct! Code works irrespective of the order the classes are passed.

☐ class(a, B)

☐ class (a, b)

☒ class C(A, B)

☒ Correct

Correct! Code works irrespective of the order the classes are passed.

3. In Example 3 of the previous exercise, if we had modified the code to include a global variable 'a = 5' as follows:

1 / 1 point

```

1  a = 5
2  class A:
3      a = 7
4      pass
5
6  class B(A):
7      pass
8
9  class C(B):
10     pass
11
12  c = C()
13  print(c.a())

```

Will the code work and what will be the output if it does?

☒ No

☐ Yes and it will print the value 7

☐ Yes and it will print the value 5

☒ Correct

Correct! As the print statement is over the object c.

4. What function can be used other than mro() to see the way classes are inherited in a given piece of code?

1 / 1 point

☒ help()

☐ dir()

☐ class()

☐ info()

☒ Correct

Correct! help() can be used other than mro() to see the way classes are inherited in a given piece of code.

5. The super() function is ____? (Select all that apply)

1 / 1 point

☒ called inside the child class __init__()

☒ Correct

Correct! It is called over child class __init__() and refers parent class __init__()

☐ used to call different parent class method

☒ called over the `__init__()` method of the class it is called from

☒ Correct

Correct. That will refer the `__init__()` of parent class.

6.What is the type of inheritance in the code below:

```
1 class A():  
2     pass  
3 class B(A):  
4     pass  
5 class C(B):  
6     pass
```

☐ Hierarchical

☐ Multiple

☒ Multi-level

☐ Single

☒ Correct

Correct! Multi-level is the type of inheritance in the code