Mind Cloud OOP Reports

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# Difference between shallow and deep copying

# Shallow copying

shallow copying is a type of copying that copies something but if you change in it, it changes the original item of the copy

for example if you have an array arr = [ {1,2} , {2,5}]

and you want to make a copy , the copied array cpyArr and change the cpyArr[0][0] = 10

so now the original is equal arr = [ {10,2} , {2,5}] , and the cpyArr = arr = [ {10,2} , {2,5}]

# Deep copying

In contrary deep copying is a type of copying that makes a complete independent copy of something let’s take our arr for example arr = [ {1,2} , {2,5}] and the cpyArr of the original arr.

If you modify in the deep copy cpyArr[0][0] = 10 then now

arr = [ {1,2} , {2,5}] . cpyArr = [ {10,2} , {2,5}]

# Inheritance

# A screen shot of a computer codeMultiple inheritance

If we have this code snippet where class **C** inherits from both class **A** and Class **B**

If both classes have the same function **greet**:

The first class in inheritance wins the competition for which **greet** function is going to be called.

# Same method

But if the class **C** has a function with the same name as the parent class the function in the child class is the one which gets called not the parent **greet**() for example