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manikandan26052004 Update Multiple Inheritance.md

8e7118b · now



51 lines (41 loc) · 1.54 KB

Arithmetic Operations Using Multiple Inheritance in Python

This Python program demonstrates **multiple inheritance** by performing basic arithmetic operations — Addition, Subtraction, and Multiplication — using three classes.

Aim

To write a Python program to calculate **Add, Sub & Multiplication** using **Multiple Inheritance**.

Algorithm

1. Define `Calculation1` class
 - o Contains `Summation(a, b)` method to return the sum of two numbers.
2. Define `Calculation2` class
 - o Contains `Sub(a, b)` method to return the difference of two numbers.
3. Define `Derived` class
 - o Inherits from both `Calculation1` and `Calculation2`.
 - o Contains `Mul(a, b)` method to return the Multiplication result.
4. Input
 - o Prompt the user to enter two numbers.
5. Process
 - o Create an object of the `Derived` class.
 - o Call `Summation`, `Subtraction`, and `multiply` methods.
6. Output

- Display the results of the three operations.



Program

```
class Calculation1:  
    def Summation(self,a,b):  
        return a+b;  
class Calculation2:  
    def sub(self,a,b):  
        return a-b;  
class Derived(Calculation1,Calculation2):
```



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Raw



```
print(d.Summation(a,b))  
print(d.sub(a,b))  
print(d.Mul(a,b))
```

Output Example

	Input	Expected	Got	
✓	2	3	3	✓
	1	1	1	
		2	2	

Passed all tests! ✓

Result

The multiple inheritance is verified successfully.