**Shashwat Tripathi**

**D10A 58**

**BATCH: C**

**PYTHON LAB**

**Exp No: 3**

**AIM:** Write python programs to understand

A) Classes, Objects, Constructors, Inner class and Static method

B) Different types of Inheritance

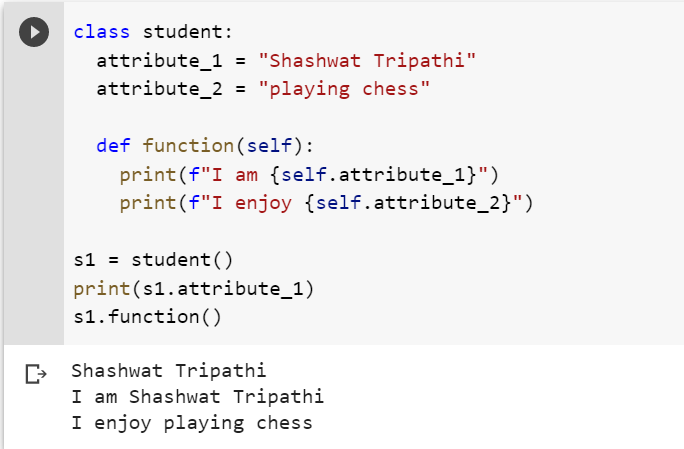
C) Polymorphism using Operator overloading, Method overloading, Method

overriding in Python.

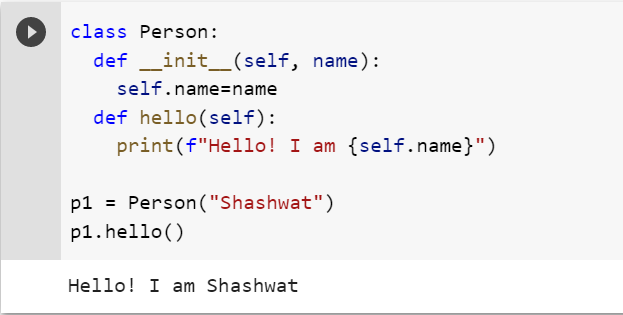
**A) CLASSES, OBJECTS, CONSTRUCTORS, INNER CLASS AND STATIC METHOD**

**CODE:**

**Class & Object**

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**Constructor**

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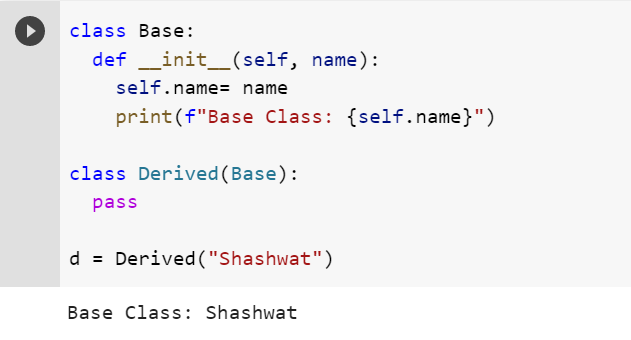
**INNER CLASS**

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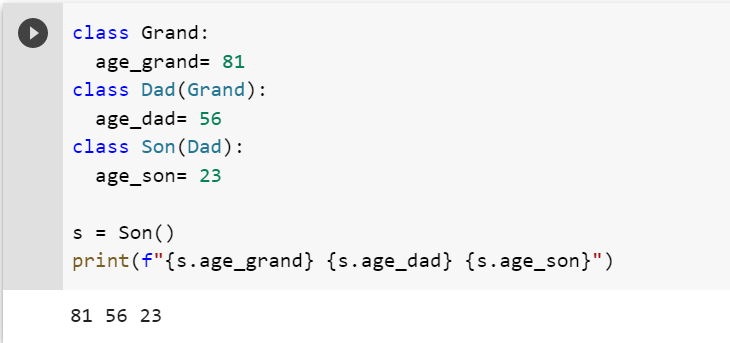
**B) DIFFERENT TYPES OF INHERITANCE**

**CODE:**

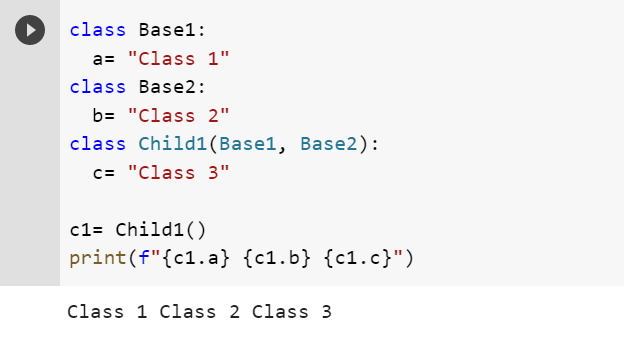
**SIMPLE INHERITANCE**

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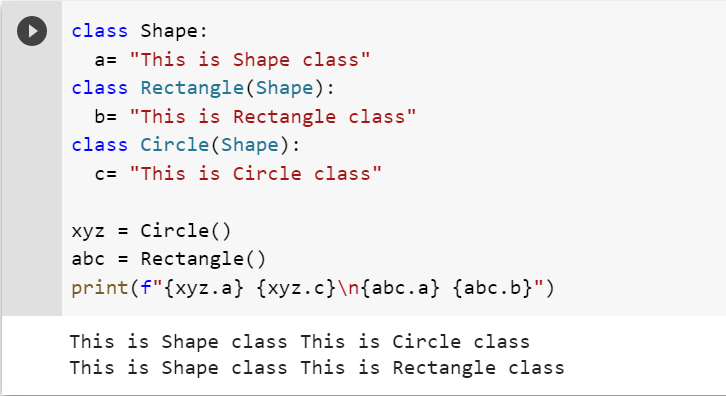
**MULTILEVEL**

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**MULTIPLE**

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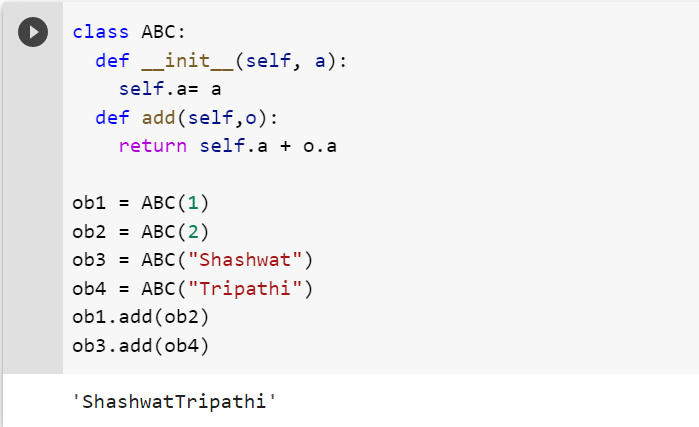
**HIERARCHICAL**

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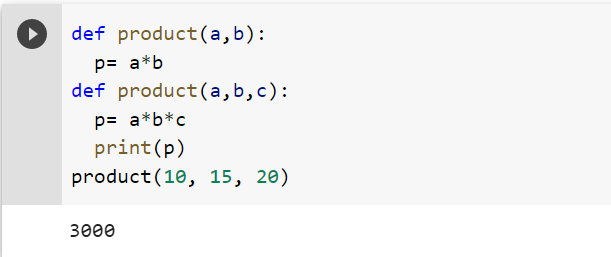
**C) POLYMORPHISM USING OPERATOR OVERLOADING,METHOD OVERLOADING,METHOD OVERRIDING,ABSTRACT CLASS,ABSTRACT METHOD AND INTERFACES**

**CODE:**

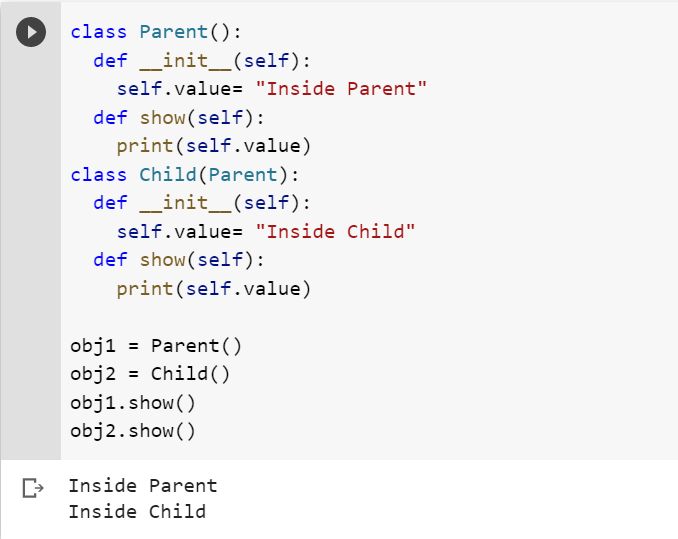
**OVERLOADING**

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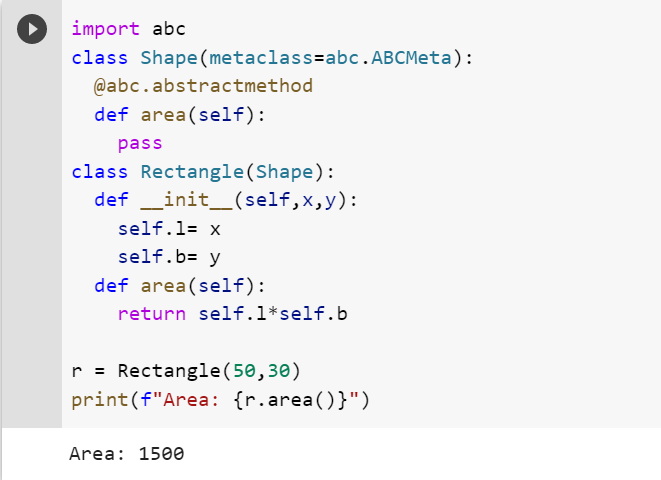
**METHOD OVERLOADING**

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**METHOD OVERRIDING**

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**ABSTRACT CLASS AND METHOD**

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**INTERFACE**

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**Conclusion -** Concepts of object-oriented programming were learned and implemented.

Some errors were faced in the abstract method which were resolved later.