Python Data Hiding

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Visibility in Python

- No public, private or protected keywords in Python
- All attributes and methods are public by default.
- Python provides a single way to make them private.



Data Hiding in Python

• To make an attribute or method private prefix double underscore in their names.

• Syntax:

__Attribute
Methods_Name()

- We cannot access attributes or methods prefixed with double underscore outside the class.
- This helps in hiding data to an extend



Data Hiding in Python - Example

Program

Output

```
→ Employee name: Ananya
class Employee:
    """Base class to all Students"""
                                                                Traceback (most recent call last):
    def init (self, name, dept, salary):
        self.name = name
        self.dept = dept
        self. salary = salary
                                                              →AttributeError: 'Employee' object has no attribute ' salary'
    def dispEmployee(self):
        self. info()
    def info(self):
        print("Name: ", self.name)
        print("Department: ", self.dept)
        print("Program: ", self. salary)
E1 = Employee ("Ananya", "CS", 50000)
#accessing public attribute outside class
print("Employee name: ",E1.name) =
#accessing private variable outside class. raises error.
print(E1. salary) -
#accessing public method outside class
E1. info()
```

