Aim: Implementation of Data Hiding in Python

Theory:

To hide the data:

The members of the class are declared as private which are accessible inside class the only. To create private data members inside the class, we use double underscore (__) before the data member.

Program:

```
#Parent Class
class Student:
       def __init__(self):
       self.__age = 39  # Private member
#Child Class
class Subject(Student):
   pass
#Object creation
obj = Student()
obj1 = Subject()
#Calling Public member using object
print(obj.name) # No Error
print(obj1.name) # No Error
#Calling Private member using syntax object._ClassName__VariableName
print(obj._Student__age) # To Access the Private member
print(obj1._Student__age) # To Access the Private member
#Private members are not directly accessible
#obj.__age # Error
#obj1.__age # Error
print(obj._Subject__age) # Error
print(obj1._Subject__age) # Error
Output:
Adams Boi
Adams Boi
39
39
```

Conclusion

Hence, in this experiment the concept of data hiding is implemented.