OOP

Object Osvented Brogoramming
bases on

1) Inheritance

2-> encapsulation

3 -> polymoorphism

4 -> Abstraction

Systax Clars clars some: member of clars

class Person:

def greet (self):

print ("Hello")

p=Person() # concaring object of class p. greet() # calling the function from class

class Math:

def add(a,b):

return a+b

def square(a,b): return a**b

ob=Math()

sum=ob.add(3,4)

print(sum)

print(ob.square(6,7))a

Insternce variable Sefforame Jocal voorball class Person: def __init__(self_name,age):

self_name=name self.age=age Soring def show(self): print(self.name) print(self.age) local variable p=Person('Anµp',26) p.show() value in in stence Variable Inheritance Superclars > Sub Clars
Superclars > Sub Clars
Superclars > derived clars Povent > child

class Animal:

def eat (self):

print (I cant') > Porent Class closs Docp (Animal):

def boonk (Self):

print (I can bank) d=Dog() deal() #inhesiated Method d. book() Hultilevel_ cheld/Povent Child/ Poorent Multiple inheritance Porent 1
Porent 2
Class A: Class B
Class C(A13): Access Modifiers

public > name > Accessible everywhere

Protected > name > Accessible insid class & Sub class

Sub class

Private > ___name > Accessible inside class

Only

Public

Class demo:

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Class demo:

Selfoname = "Anup" class 2ubdemodemore

def __init__(self):

Selfoname = "Anup" class 2ubdemodemore

def 3how(self):

Point(doname)

S= Subdemo()

S= Subdemo()

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Create a class BankAccount that represents a user's bank account. It should:

- Have private attributes: __account_number, __balance
- Have:
- A method deposit(amount) to add money
- A method withdraw(amount) to deduct money (only if balance is enough)
- A method get_balance() to return current balance
- ✓You should use encapsulation to protect the balance from direct modification.

Abstraction Steams bridge the internal details and showing only the executed features to the user

- → How to Use Abstraction in Python
 - 1. Use the abc module
 - 2. Use @abstractmethod decorator
 - 3. Cannot create object of abstract class
 - Child class must implement all abstract methods

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Hook And might moise

except:

except:

Hook for suns if an