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In [3]: #Square Numbers and Return Their Sum
         class point:
             x = 0
             y = 0
             z = 0
             def __init__(self, x, y, z):
                 self.x = x
                 self.y = y
                 self.z = z
             def display(self):
                 print("First number = " + str(self.x))
                 print("Second number = " + str(self.y))
                 print("third number = " + str(self.z))
             def sqSum(self):
                 answer = 0
                 self.x = self.x * self.x
                 self.y = self.y * self.y
                 self.z = self.z * self.z
                 answer = self.x + self.y + self.z
                 return answer
         print("hi")
         p = point(1,3,5)
         p.display()
         print(p.sqSum())
         hi
         First number = 1
         Second number = 3
         third number = 5
         35
 In [4]: #Implement the claculator class:
         class cal():
             def __init__(self,num1,num2):
                 self.num1=num1
                 self.num2=num2
             def add(self):
                 return self.num1+self.num2
             def sub(self):
                  return self.num1-self.num2
             def mul(self):
                  return self.num1*self.num2
             def div(self):
                  return self.num1/self.num2
         num1=int(input("Enter the first number:"))
         num2=int(input("Enter the second number:"))
         obj=cal(num1, num2)
         choice=1
         while choice!=0:
             print("0.Exit")
             print("1.Add")
             print("2.Subtraction")
             print("3.Multiplication")
             print("4.division")
             choice=int(input("Enter choice:"))
             if choice==1:
                 print("Result:", obj.add())
             elif choice==2:
                 print("Result:",obj.sub())
             elif choice==3:
                 print("Result:",obj.mul())
             elif choice==4:
                 print("Result:",obj.div())
             elif choice==0:
                 print("Exiting!")
             else:
                 print("Invalid choice!")
         Enter the first number:15
         Enter the second number:20
         0.Exit
         1.Add
         2.Subtraction
         3.Multiplication
         4.division
         Enter choice:1
         Result: 35
         0.Exit
         1.Add
         2.Subtraction
         3.Multiplication
         division
         Enter choice:2
         Result: -5
         0.Exit
         1.Add
         2.Subtraction
         3.Multiplication
         4.division
         Enter choice:4
         Result: 0.75
         0.Exit
         1.Add
         2.Subtraction
         3.Multiplication
         4.division
         Enter choice:3
         Result: 300
         0.Exit
         1.Add
         2.Subtraction
         3.Multiplication
         4.division
         Enter choice:0
         Exiting!
 In [5]: # Implement the Complete Student Class
         class student:
             name="bharat"
             rollNumber=1
             def getName(self):
                 return self.name
             def getRollNumber(self):
                 return self.rollNumber
             def setName(self, name):
                 self.name=name
             def setRollNumber(self,rollNumber):
                 self.rollNumber=rollNumber
         obj1=student()
         obj1.setName("Mayur")
         obj1.setRollNumber(123)
         print("My name is " + obj1.getName())
         print("My Rollnumber is " + str(obj1.getRollNumber()))
         My name is Mayur
         My Rollnumber is 123
 In [6]: #Implement a Banking Account
         class Account:
             def __init__(self, title, balance):
                 self.title=title
                 self.balance=balance
             def disp_Acc_details(self):
                 print(self.title, self.balance, self.interestRate)
         class SavingsAccount(Account):
             def __init__(self, title, balance, interestRate):
                 Account.__init__(self, title, balance)
                 self.interestRate=interestRate
         obj=SavingsAccount('Ashish',5000,5)
         obj.disp_Acc_details()
         Ashish 5000 5
In [20]: #Handling a Bank Account
         class Account:
             def __init__(self, title, balance):
                 self.title = title
                 self.balance = balance
             def withdrawal(self, amount):
                 self.balance-=amount
             def deposit(self, amount):
                 self.balance+=amount
             def getBalance(self):
                 return self.balance
         class SavingsAccount(Account):
             def __init__(self, title, balance, interestRate):
                 Account.__init__(self, title, balance)
                 self.interestRate = interestRate
             def interestAmount(self):
                 return (self.interestRate*self.balance)/100
        obj=SavingsAccount("Ashish", 2000, 5)
In [22]: obj.getBalance()
Out[22]:
In [24]: obj.deposit(500)
In [25]: obj.getBalance()
         2500
Out[25]:
In [26]: obj.withdrawal(700)
In [27]: obj.getBalance()
         1800
Out[27]:
In [28]: obj.interestAmount()
         90.0
Out[28]:
```