def get_email(self):
 return self. email

1. Write a python script to create a Profile class with 3 attributes (name, email, age). class profile: def init (self): self.name=input("enter the name ") self.age=int(input("enter the age ")) self.email=input("enter the mail ") class inherit(profile): def show details(self): print(self.name,self.age,self.email) stu=inherit() #p=profile() stu.show details() 2. Write a python script to update the above Profile class with encapsulation. class profile: def __init__(self): print("enter the name,age,email") self.name=input() self.age=int(input()) self.email=input() def get name(self): print("\n\n",self.name) def get age(self): print(self.age) def get email(self): print(self.email) pro=profile() pro.get_name() pro.get age() pro.get email() 3. Write a python script to update 2nd Question, change email and age to email and age. class profile: def init (self): self.name=input("enter the name\n") self. age=10 self. email="kasmeerbhalu01@gmail.com" def get name(self): print() print(self.name,) def get age(self): return self. age

```
def change_age_email(self,age,email):
    self.__age=age
    self.__email=email

pro=profile()
pro.get_name()
pro.change_age_email(25,'rohi20@gmail.com')
print(pro.get_age())
print(pro.get_email())
#print(pro._profile__age)
```

4. Write a python script to update 2nd Question, add a class variable (platform) and create a classmethod to access it.

```
class profile:
  def init (self):
     print("enter the name,age,email")
     self.name=input()
     self.age=int(input())
     self.email=input()
  def get name(self):
     print("\n\n",self.name)
  def get age(self):
     print(self.age)
  def get email(self):
     print(self.email)
  @classmethod
  def access platform(cls):
     cls.plateform=input("enter the plateform")
     print(cls.plateform)
pro=profile()
pro.get name()
pro.get age()
pro.get email()
pro.access platform()
```

5. Write a python script to create a Calculator class with 2 methods for adding and subtracting 2 values.

```
class calculator:
    def __init__(self, m1,m2):
        self.m1 = m1
        self.m2 = m2

def __add__(self,other):
    total_m1 = self.m1 + other.m1
    total_m2 = self.m2 + other.m2
    s3 = calculator(total_m1,total_m2)
    return s3

def __sub__(self,other):
    total_m1 = self.m1 - other.m1
    total_m2 = self.m2 - other.m2
    s4 = calculator(total_m1,total_m2)
```

def __sub__(self,other):

total_m1 = self.m1 - other.m1 total_m2 = self.m2 - other.m2 s4 = calculator(total_m1,total_m2)

```
def __str__(self):
     return str(self.m1) + " : " + str(self.m2)
s1 = calculator(45,34)
s2 = calculator(99,77)
s3 = s1 + s2
s4=s1-s2 # calculator. add (s1,s2)
         # s1. add (s2)
#print(a)
print(s3,s4,sep="\n")
6. Write a python script to create a Calculator 2.0 class with 2 methods for multiplication
and division of 2 values and inherit it from the Calculator class.
class calculator 2:
  def give data(self, n1,n2):
     if n1>n2:
       pass
     else:
       n1,n2=n2,n1
     self.n1 = n1
     self.n2 = n2
  def mul(self):
     return self.n1*self.n2
  def complete division(self):
     return self.n1/self.n2
  def floor div(self):
     return self.n1//self.n2
class calculator(calculator 2):
  def init (self, m1,m2):
     self.m1 = m1
     self.m2 = m2
  def __add__(self,other):
     total m1 = self.m1 + other.m1
     total m2 = self.m2 + other.m2
     s3 = calculator(total m1,total m2)
     return s3
```

```
return s4
  def str_(self):
     return str(self.m1) + " : " + str(self.m2)
s1 = calculator(45,34)
s2 = calculator(99,77)
s3 = s1 + s2
s4 = s1 - s2
print(s3,s4,sep="\n")
s1.give_data(3,4)
print(s1.mul())
print(s1.complete division())
print(s1.floor div())
7. Write a python script to create a Phone class with 2 methods to print the features (calling and sms).
class phone:
  def features1(self):
     print("calling")
  def features2(self):
     print("sms")
p=phone()
p.features1()
p.features2()
8. Write a python script to create a SmartPhone class by inheriting Calculator 2.0 and Phone Class.
class phone:
  def features1(self):
     print("calling")
  def features2(self):
    print("sms")
class calculator 2:
  def give data(self, n1,n2):
     if n1>n2:
       pass
     else:
       n1,n2=n2,n1
     self.n1 = n1
     self.n2 = n2
  def mul(self):
     return self.n1*self.n2
  def complete division(self):
     return self.n1/self.n2
  def floor div(self):
     return self.n1//self.n2
class smartphone(phone,calculator 2):
  def init (self):
     print("smart class")
s=smartphone()
```

```
s.features1()
s.features2()
s.give data(12,10)
print(s.mul())
print(s.complete division())
print(s.floor div())
9. Write a python script to create an application like Truecaller where names and
numbers are stored. Truecaller class will have 2 methods (1st to fetch the name of a
number and 2nd to add a new entry).
class trucaller:
  def name num(self):
     self.dis={"rashmi":5645678466,"him":564783883,"ummed":6767676767,"san":6777787878,"abhay":4535243
51}
  def access name(self):
     for x in self.dis:
       print(x)
  def edit name(self):
    reply=input("do you want to adda new entry[ya/na]\n")
    if reply=='ya':
       n=int(input("how many "))
       for x in range(n):
         key=input("enter the key ")
         value=eval(input("enter the vlaue "))
         self.dis[key]=value
       print(self.dis)
     else:
       print("ohk")
tru=trucaller()
tru.name num()
tru.access name()
tru.edit name()
10. Write a python script to add the new method in SmartPhone class which accepts
Truecaller object as a parameter and call the fetch method of Truecaller.
class trucaller:
  def name num(self):
    self.dis={"rashmi":5645678466,"him":564783883,"ummed":6767676767,"san":6777787878,"abhay":4535243
51}
  def access name(self):
     for x in self.dis:
       print(x)
  def edit name(self):
    reply=input("do you want to adda new entry[yes/no]\n")
     if reply=='yes':
       n=int(input("how many "))
       for x in range(n):
         key=input("enter the key ")
         value=eval(input("enter the vlaue "))
          self.dis[key]=value
```

```
print(self.dis)
else:
    print("ohk")
class smartphone(trucaller):
    def access_trucaller(tru):
        tru.name_num()
        tru.access_name()
        tru.edit_name()
```

tru=trucaller()
obj=smartphone()
obj.access_trucaller()