object oriented programming concepts

```
1
             1.objects
          2
          3 real world entities.
          4 has certain state and behaviour
          5 eg:student
          6 state:
          7 name, id, address
          8
            methods:
          9
            study,cgpa
         10
          1 2.class
            blueprint of objects
             class Student:
In [2]:
          1
                 def __init__(self,name,ids):
                     self.name=name
          3
          4
                     self.id=ids
          5
                 def print_name(self):
                     print(f"name:{self.name}")
          6
          7
                 def print_id(self):
          8
                     print(f"id:{self.id}")
          9
         10 st1=Student('anu',1)
             st1.print_name()
        name:anu
            st2=Student('ravi',4)
             st2.print_name()
        name:ravi
```

```
In [3]:
```

```
In [4]:
             class Student:
          2
                 def __init__(self):
          3
                     self.name=input("enter name:")
                     self.id=input("enter id:")
          5
                 def print_name(self):
          6
                     print(f"name:{self.name}")
          7
                 def print_id(self):
          8
                     print(f"id:{self.id}")
          9
         10
            st1=Student()
             st1.print name()
```

enter name:anu enter id:1 name:anu

```
In [5]:
             class account:
          2
                 def __init__(self,accnt_num,accnt_blnce):
          3
                     self.accnt=accnt_num
                     self.blnce=accnt_blnce
          4
          5
                 def withdraw(self,amount):
                     if self.blnce-amount>=0:
          6
          7
                         print("you can withdraw the ampunt")
                         self.blnce=self.blnce-amount
          8
          9
                     else:
                         print("withdrawal failed")
         10
         11
                 def display(self):
         12
                     print(self.accnt,"your balnce is ",self.blnce)
         13
         14
            accnt1=account(12334435,10000)
             accnt1.withdraw(5000)
         15
         16
        you can withdraw the ampunt
```

```
In [7]: 1 accnt1.display()
```

12334435 your balnce is 0

```
In [9]:
             class Animal:
          1
          2
                 def __init__(self):
                     self.name=input("enter name:")
          3
                     self.color=input('color:')
          4
          5
                 def walk(self):
                     print("animal can walk")
          6
          7 a1=Animal()
             print(a1.name)
          9 a1.walk()
```

enter name:dog
color:black
dog
animal can walk

```
In [ ]: 1
```