```
#----ATM1
name=['shruthi','sonu','reena','riya']
pas=[1,2,3,4]
balance=[1000,1500,1200,1000]
def withdraw(current):
  amt=int(input('Enter a amount:'))
  if amt<=balance[current]:</pre>
    balance[current]-=amt
    print(balance[current])
  else:print('insufficient')
def deposit(current):
  amt=amt=int(input('Enter a amount:'))
  balance[current]+= amt
  print(balance[current])
def c balance(current):
  print('Balance is:',balance[current])
def default(current):
  print("enter crt option")
#----ATM2
balance= 50000
srushti balance=20000
def lavanya():
  print("hi lavanya ")
  pas=input("enter the password: ")
  if pas == "lav18":
    print("access granted")
  while pas!= "lav18":
    new pas=input("enter correct password")
    if new pas == "lav18":
      print("acsess granted")
```

## break

```
work=input("enter the work ")
  if work == "withdraw":
    amount=int(input("enter the amount"))
    if amount <=balance:
      print("amount withdraw done",amount)
      new bal= lavanya balance=balance-amount
      print(new bal)
    else:
      print("withdraw amount is exceeded than balance")
def srushti():
  print("hi lavanya ")
  pas=input("enter the password: ")
  if pas == "lav18":
    print("access granted")
  while pas!= "lav18":
    new pas=input("enter correct password")
    if new_pas == "lav18" :
      print("acsess granted")
      break
  work=input("enter the work ")
  if work == "withdraw":
    amount=int(input("enter the amound"))
    lavanya balance = 20000
    if amount <= srushti balance:
      print("amount withdraw done",amount)
      new bal= lavanya balance=lavanya balance-amount
      print(new bal)
    else:
      ("withdraw amount is exceeded than balance")
```

```
def information ():
  person=(input("enter the person name: "))
  switch_data={"lavanya":lavanya,"srushti":srushti}
  result=switch_data.get(person,0)
  result()
information()
#----sort
I=[2,5,6,3,8,9,11]
n=len(l)
for i in range(n):
  for j in range(n-i-1):
    if |[i] > |[i+1]:
      |[i],|[i+1]=|[i+1],|[i]|
print("sorted list",l)
#----searching
list=[1,2,3,4,5,6,7]
key=5
1=0
r=len(list)-1
while I<=r:
  mid=(l+r)//2
  if list[mid]==key:
    print(f"the vallue found at index of {mid}")
    break
  elif list[mid]>key:
```

```
r=mid-1
  else:
    I=mid+1
if key not in list:
  print("value not found")
#----- linear search
l=list(map(int,input("enter the values of list: ").split(' ')))
key=int(input("enter the key value:"))
for i in range(len(l)):
  if I[i] == key:
    print(f"value found in {i}th index")
    break
if key not in I:
  print("value not found")
if i==len(l)-1 and l[i]!=key:
  print("not found")
#----module
import calendar
yy=2004
mm=11
print(calendar.month(yy,mm))
#1
class a:
  def init (self):
    print("bingo")
class b(a):
  def __init__(self):
```

```
print("lays")
class c(b):
   def init (self):
      super().__init__()
c()
#2
class dog:
  def sound(self):print("wow")
class cat:
  def sound(self):print("meow")
def make_sound(noise):
  noise.sound()
c=cat()
d=dog()
make sound(c)
#-----linkedlist
class node:
  def init (self,data):
    self.data=data
    self.next=None
class linkedlist:
  def __init__(self):
    self.head=None
  def insert at end(self,data):
    newnode = node(data)
    if self.head is None:
      self.head= newnode
    else:
      current=self.head
```

```
while current.next is not None:
         current=current.next
      current.next=newnode
  def _insert_at_beggining_(self,data):
    newnode = node(data)
    if self.head is None:
      self.head= newnode
    else:
      newnode.next = self.head
      self.head = newnode
  def display(self):
    current=self.head
    while current:
      print(current.data,end="-->")
      current=current.next
  def search (self,data):
    current=self.head
    count=0
    while current:
      count += 1
      if current.data==data:
         print("data is found",count)
         count=-1
         break
      current= current.next
    if count!=-1:
         print("data not found")
obj=linkedlist()
obj._insert_at_beggining_(7)
```

```
obj. insert at beggining (6)
obj. insert at end(8)
obj.display()
obj._search_(2)
#-----doublelinkedlist
class node:
  def __init__(self,data):
    self.data=data
    self.next=None
    self.prev=None
class linklist:
  def __init__(self):
    self.head=None
    self.tail=None
  definsert end(self,data):
    newnode=node(data)
    self.tail=newnode
    if self.head is None:
      self.head=newnode
    else:
      current=self.head
      while current.next:
        current=current.next
      current.next=newnode
      newnode.prev=current
  definsert before(self,data):
    newnode=node(data)
    self.head=newnode
    if self.head is None:
      self.head=newnode
    else:
```

```
current=self.head
       while current:
         current=current.next
      current=newnode
       newnode.next=current
  def display_fw(self):
    current=self.head
    while current:
       print(current.data,end="-->")
      current=current.next
  def display_bw(self):
    current=self.tail
    while current:
       print(current.data,end="<--")</pre>
      current=current.prev
obj=linklist()
obj.insert_before(5)
obj.insert_end(6)
obj.insert_before(3)
obj.display_bw()
```