```
Modify the following program with walrus operator
  Hint: - call index () method only once -
 a = [10, 20, 15, 12, 14, 15, 18, 19, 15, 12, 25]
  Try:
                      rather pairs outer
     1=-1
    while (1:= a. index (15, i+1);
        print(i)
    except Value Error:
        print (f'15 is found {a. count (15) } times')
2) Most tricky program : 11/26 (11/2) with the
 Write a program to determine first list is a sublist of and list
  or not Print True if it is a sublist and False otherwise
   def is-sublist (first, second):
       for item in first:
                                             mede - Nene
            pos=second. Index (item, pos+1), (5) by the top
         except Value Error:
                                   treq : a \cdot (ount(x)
             return False
                                    if freq x cer:
         return True
                                    prifails
```

y = shorn

Emmi - bank I tilling

City is former, I juild

Um Sri Sai Roum

```
(3) copy() method
                     # [10,20,15,18]
  a = [10, 20, 15, 18]
                     # copy using copy()
  b = a. (opy 1)
                    # [10,20,15,18]
  print (b)
                     H False (different object in memory
  print (a is b)
                    # Time (same ualue)
  print (a == b)
                     # copy wing slicing
  c=a (:]
                     # [10,20,15,18]
  print(c)
                  # False
  print (a is c)
                   # Tru
  print (a == c)
                     assignment, not copy
  d=a
  print (d)
                   # [10,20,15,18]
                  # Time (both refer to same list)
  print (a isd)
                  # True (values also same)
 print (a==d)
4) Tricky program
   Write a program to determine mode
     a=[12, 20,18,15,10,15,10,15, 20,18,15,10, 20,15,10]
      mode = None
       Ct1 = 0
       for x in set(a):
           freq ca-count (x)
            if freq > ctr:
                  ctr = treq
                    mode = X
          print ("mode = ", mode)
         print ("count =", ctr)
```

5) Nested list demo program a=[[10,20,30,40],[50,60,70,80],[90,100,110,120]] H full Nested list print (lenia)) # Number of inner lists print (How to print 1st inner list) #print (a [0]) -> [10,20,30,40] print LHow to print and inner list # print (a[1])-) [50, 60, 70,80] print [How to print 3'd inner list) # print (a(2)-)[90,100,110,120] print (How to print 30) # print (a [0] [2]) print (How to print 80) # print (acrica) print (How to print 100) # print (acz][1]) DH Lind Outputs a Site of land thin 180 below. a=[[10,20], [30,40,50], [60,70,80,90]] print (How to print 1st inner list) # print la [0])-> [10,20] print (How to print and inner list) # print (a[1]) -> [30,40,50] print [ How to print 3'd inner list) # print (a(2))-1 [60,70, 80,90] print (How to print number of elements in 1st inner list) # 2 print (How to print number of elements in and inner list) # 3 print (How to print number of elements in 3'd inner list) # 4 #print(len (acos)) #print(len (a(13)) TH How to print nested list in different ways # print (len (a[2])) a=[[10,20],[30,40,50],[60,70,80,90]] print ('Nested list with print function') Print (???) Print l'Each inner list of outer list without indexer!) How to print each inner list of list 'a' without using indexes use of loop) Printl'Element in the form of matrix without using indexes!

```
How to print elements of each inner
print l'Element in the form of matrix using indexes')
How to print elements of each inner list wing indexes in mating
 Style (use nested loop)
(8) H Alna (autputs
  a = [[16,(20
  a = [[10, 20], [30, 40, 50] , [60, 70, 80, 90]]
  print ('Mested list wish print function')
  printl' Each inner list of outer list without indexes;
  for inner in a:
  print ('Elements in the form of matrix without wing
                                                    indexuj
    for inner in a:
    for Kininnes:
 print (x. End = ")
  print()
print ('Element in the form of matrix using indexed)
tori in range (len (a))
   tor j'in range (len (a (i])):
      print (aci) [j], end = ")
 print()
```

```
3) find outputs
a [[10,20,[30,40],[50,60],[70,80]]
 for x in a: # x takes inner list
   print(x) # [10,20],[30,40],[50,60],[70,80]
 print()
 for X14 in a: # unpack in x 84
 print (x, y, sep=...) 10---20
of find putputs 12 mon and is I to some immedial
 a=[[10, 20,30],[40,50,60],[70,80,90]]
  for x in a:
               # x take inner list
  Print(x) [ = + [10,20]; [30,40], [50,60]; [40,80]]
  print()
 to x,4,2 in a: the unpack in (x
  print (x, 4, 7, sep=:...) # inner: list has 3 elements
3500.0], [18, Kiran asoc.0], [8, Amas stugtuorbnit (
  a=[[10,20], [30,40,50], [60,70,80,90]]
                        # [10,20]
  for x in a:
     print(x)
                        # [30,40,50]
   tor x, y ina
                        # [60,70,80,90]
    Print (x, y, sep = :...)
1) tind outputs
   a = [[]]
   print (How to print inner list) # Empty list
   Print ( How to print inner list in another way) = Empty tis
```

(a) Hind outputs

a=[[10, 'Rama', 1000.0], [20, 'sita', 2000.0], [15, 'Rajesh'. 3500.0]]

[18, 'Kiran', 2800.0], [5, 'Amar', 5000.0]]

print (sorted (a))

print (sorted (a, reverse - (rw))

print(a)

# [[5, 'Amar', 5000.0], [10, 'Rama', 1000.0], [15, 'Rajuh'; [18, 'Kîvan', 2800.0], [20, 'sîta', 2000.0]]

# [[20, 'sita', 2000. o]. [18, 'kiran', 2800. o]. [15, Rajesh,
[10, 'Rama', 1000. o]. [5, 'Amar', 5000. o]]

# [[10, 'Rama', (000.0], [20, 'sita', 2000.0], [15, 'Rajust 3500.0], [18, 'Kiran', 2800.0], [5, 'Amas', 5000.0]]

[06,20] W.

( minday )