```
16/08/25
 What are the outputs it inputs of [25, 10.5, 'Hud True]
    a=input ('Entu list:')
                            71" [25,10.8, 'Hyd', True]"
   print (type car)
                           # class string
   print(a)
                           # [25,10.8, Hyd; True]
                           # [25,10.8. Hyd. True] string into python
   b= eval(a)
                          # [25,10.8, 'Hyd', Tim]
   print(b)
                          -It list
  print (type (b))
 2 # find outputs
                          # [10,20,15,18]
   a = [10,20,15,18]
   b = a
                          # bis not a copy of a another reference
   print (a is b)
                          # True
   print (a == b)
                                                           same list
                          # True
   b[2]=12
                          # [10,20,12,18]
                                                         minute
   print(a)
                          #[10,20,12,18]
3 find outputs
   a-[10,20,15,18]
   b=[100,200,150]
                           # [10,20,15,18,100,200,150]
  print (a+b)
  print (a+5)
                          # Error - sannot add an integer can only
  print (0+'5')
                          # Error-s can only concatenate list
  print ([10.20]+(30,40))
                         # 81101-> can only concalenate list
U# Tricky find outs
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a:[1,2,3]

b=[4,5,6]

a = (1,1,3)

b= (4.5,6)

```
# [v,2,3,4,5,6] += extend in place in same liet
 print (a, idiai)
 a+=b
Print (a lidiai)
                # [1,2,3,4,5,6]
5 # Tricky program
                     de 0 [1,2,3]
   a: [1,2,3]
                            [4,5,6]
    b= (4,5,6]
                     #
   print (a. idia)
                            [1,2,3]
                    #
                            [a+6 creates new list object assign
   a = a+6
                    -#
                           [1, 2, 3, 4, 5, 6]
   print (a. idial)
                    -11
1 + list packing
   Q = 25
                       It Integer
   b=10.8
                       -It flood
   C= 'HYd'
                      # string
   d= True
                     # boolen
    e=[aibicid]
                     # [aibicid]
   print(e)
                     # [25, 10.8, 'Hyd' True]
   print(type(e))
                     # list
7 # find outputs
  list = [25, 10.8, 'Hyd', Time]
   a, 4b, c = list
                          It a:25 B = True b=[10.8, H4d]
  pilnt('a:',a)
                          # 2:25
  print ('b: b)
                          # b: (10.8, 'Hyd')
  print ('c:'c)
                          # C= True
 print (typelb)
                         # List
 X, y = list
                         # X=25 4=[10.8], Hyd, True]
print ('x:,x)
                         # X:25
print ('4: 4)
                        # 4. [10.8, HAd. Time]
*P, 2= list
                            list 9= True P= (35, 10.6
```

```
# 2- True
print ('p:', p)
                  # P=[25,10.8, 'Hud']
 print ('9: ',9)
8 # find outputs
                               # [25, 10.8, 'Hyd. True]
  list = [25, 10.8, "Hyd, True)
                              It not enough walnes to unpack
   a, b. c, die = list
                              Herror not enough values to unpack
   aib, *c, die = list
                              # 25
   print ('a:',a)
                              # 10.8
   print ('b:',b)
                              # 'H4d'
   print (c: c)
                             # d= 'H4d'
   Print ('d:',d)
                             # e= True
   print ('e:',e)
                             # not enough values to unpack
   a,b,*c,d,e,f=list
a) # find outputs
  list: [25, 10.8. Hud, True] # [25, 10.8, 'Hyd, True]
   a,b,-,d:list
                              # a,b, -, d
   print ('a: a)
                             # 25
   print ('b:, b)
                              # 10.8
   print ('-:;-)
                             # Hyd
   prin+('d:,'d)
                              H True
(10) # find outputs
  list =[25,10.8, 'Hyd, True, 3+4]]
                               # [25, 10.8, Myd', True, 3+4]]
  a, b, a, d, a = list
  print (a: a)
                               # 9:3+41)
  print ('6: 16)
                              #6:10.8
  print (d:'d)
                             #d: Time
```

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(i) Tricky program
 the 4 and outputs
  1ist: [25,10.8, 'Hyd', True, 3+4j] # [25,10.8, 'Hyd' True, 3+4j]
                                 H' list
  a,b,-,d, -= list
                                # 0:25
 Print ('a: 'a)
                                # 16=10.8
 print ('61',6)
                                # 1-= H4d)
 print('_::-)
                               # d=Tru
 print ('d:',d)
                              = 3+4J
 print (1:1-)
(2) Identify error
   list = [25, 10.8, 'Hyd', True, 3+4j] # [25, 10.8, 'Hyd', True, 3+4j]
   a, * b, C, *d, e = list
                                  # & Error : two starred expression
                                                          in assignm
13 # I'nd outputs
  list = [[25, 10.8], Hyd, True] # Nested list
  a, b, c = list
                              # list
  print ('a: ',a)
                               # a: [25,10.8]
  print (16:16)
                                # b: Hyd
   print ('c:'c)
                                    C: True
(14) Aind outputs
   list = [(25, 10.8], 'Hyd', True]
   [a,b], Cid=list
                              # [aib], cid]
   print ('a: ia)
                              # a: [25, 10/8] a:25
                          # b= 'Hara' 10.8
  print ( '6:, 6)
 print L'c:'e)
                             # C = H4d
prin + ('d:,'d)
                            # d= True
                            H not enough value (expected 4, got3,
albicid = list
```

```
13 Comparing lists
 a = (10, 20, 15, 18)
 b = (10, 20,15,18)
 C=[10,20,25,9]
 d=[10, 20,7,22]
                         # a and b are [10, 20, 15, 18] -> True
 print (a==6)
 print (alsb)
                        # & False -> contents same but two separate
 print (axc)
                        # 15/25 -150 axc -> True
 print (asb)
                       # True -3 15 >7 -> a >d
 print (a)=c)
                      # False
 print (ax=d)
                      # False
 print (ab=c)
                      # True
                      # False
 print (a) = 6)
                      # False
 prin + (-a == c)
(18) Comparing lists
  a = [10,20, 15,18]
  b=[20,18,15,10]
  print (0==b)
 print (aisb)
                       # False two separate list in memory
```