```
# Frod outputs
    a = range (10,20)
    Print (*a, sep=',') - # (10,11,12,13,14,15,16,17,18,19,
     b = range (5)
     Prior (*b) - #(01234)
   c = rang (10,1,-1)
   print (* c, sep = '...') -# 10...9...8...7...6...5...
                             4 ... 3 ... 2
    d = rarge (-10,0)
                   - # -10, -9, -8, -7, -6, -5, -4, -3, -2, -1
    print (* 4)
    e = range (-10) _ # tmpty listing
    print (xe)
   f - range (2,2)
    print (xf) - # triply string
  ~ = rarge (10,17,3) - # [10,13,16]
   a, b, c = 8 - # (10,13,116)
    ~= range (3) - # [0,1,2]
    x140=8 - # Error-
18 7/25
  a = [25, 10.8, 'Hyd', True, 3+4j, None, 'Hyd', 25]
  print(a) - [25, 10.8, 'Hyd', True, 3+4j, None, 'Hyd', 25]
  print (&a) _ 250 10.4 Hyd True 3441 None Hyd 25
print (type (a)) - # clar x'list'>
print(id(a)) _ # Addus of object a'.
print(lental) _ # 8
```



```
a[2] = 'sec'
      print (a) = [ 25, 10.8, Sec. True, (8+4j), Mone, Hyd', 25]
      Print (a[2:5]) - [Sec, True, 3+4]]
     # - Append & Remove
      a=[] -#[]
      print (a) a
      a append (25)
      a. append (10.8)
      a. append ('Hyd')
      a append (True)
      print (a) -# [ 25,10.8, Hyd, True]
      a. remove ('Hyd') - # [ 25,10.8, True]
        print (a)
      a. remove (1251)
      print (a) _ # { KOLA, THERE } Error
    # Find outputs:
      a = [ 25, 10.8, 'Hyd']
77777770
     print a -# [25, 10.8, "Hyd"]
      print id(a)) - # Address of object a
     print (a*3) -# [ 25/10.8, 'Hyd', 15, 10.8, 'Hyd', 25, 10.8, 'Hyd'
     print (a+ 2) - + [ 25, 10.8, 'Hyd', 25, 10.4, 'Hyd']
     print (ax1) - #[25, 10.6, 'Hyd']
     print (a* 0) _ # ? I empty list
0
     print (a * -1) ___ # () empty list
9
      print (a 4 4.0) - + trov.
```

```
a = a + 3 - Il Ret modified to a [25, 10 5, hyd, 25, 10 , 5, Hyd, 10 8, Flyd)
       Print(a) [55, 10.5, 14yd1, 25, 10.5, Hyd, 25, 10 6, Hyd]
      print (id(a)) Adden of object a
    # list 1) =
      a = list ('Hyd')
     print (a) - + ['Har'][Hiyid]
    print (type (as) - # class < 'list'>
    print (len(a)) - # 3 H,y,d
    b = (10,20, 15,18)
   print ( liet (b)) ____ [10, 20, 10, 18]
  print ( list (range (1))) _ # [011,2,3,4]
  print (11st (25))
                     ___ # Error.
                                    # Find outputs!
 # Fird outputs:
                                    a=[] - # Emply list
                                    b= 1) - # Empty tuple
   a= []
  print(type(a)) - # class ¿'cit'>
                                     c= 93 - # Empty set dict
                                    d = set () - Empty set
  print(a) - # []
                                    prior (type(a)) - eclaritist's
                                    print (type(b)) - < class tuple>
 printlen(a)) _ # 0
                                     print (type(c)) - colon diet's
   b = list()
                                    print (type(d1) - c classifet's
  print (b) __ + []
                                     print(a) - []
                                     print (b) - ()
print (len (b)) - 0
                                     print (c) - (3
                                     print (d) - set ()
```

```
# Slice demo prgm:
     list = [25, 10.8, 3+4j, 'Hyd', 'True', Horse, 10.8, Hyd']
     print (list [2:7]) - # [3+4j, Hyd, True, None, 10-9]
    priod (list[ :: ]) _ # [25, 10.8, 3+4j + Hyd, Free, Nove, 10.1,
    print(list (::-1) [-1:-9:-1] =) -16 & did.
De print ( list ( : : 2] (0:0:0)
  print (list [::2] # [25, 3+4], True, 10.8]

print (list [1::2] # [10.8, Hyd, None, Hyd]
print (list (::-2) - # [ Hyd, None, Hyd, 10.1)
 print [list [-2::-2] - # [10.8, Frue, 8+4] + 26]
 print (uit [1:4]) - # [10.8, 3+4j+ Hyd]
 print (list [-4:-1]) - # [ True, Hyd, 844], 10.6, 26]
 print ( rist [3: -3]) # [ Hyd. True, None]
 print [ list [ 2:-5] _ # 12 ] [3+4]
  print (list[-1:-5] - # []
  # Find output:
   list = [ 25, 10.8, 3+4], "Hyd", True, None, 10.8, Hyd"]
     a. y = Ust[3:5] - # ['Hyd', True]
       prid ('a: ', #x) - # 444
        print ( 'y: ", y) _ # Free
```

Print set in a diff ways: a = { 25, True, 'Hyd', 10.83 Print ('set with print function:) - # {15, True, 'Hyd', 10.5% print (a) print ('Itea & through set with for loop!) for element in a: - # 25 print (element) True # Tricky program: a = set 1) - # Emply Set. a. add (15) - # (15,) a. add (10.5) _ # (25,10.5) a. add ('Hyd' - # (25 10.8 'Hyd') a. add (True) _ # (25 'Hyd' 10.8 1) a. add (None) - # (None 10.8 25 'Hyd') a. add (1) - # (1,10;8,25, 'Hyd', 25) print (a) _ # [1,25, 10.8, France (Hyd) None) a. remove (25) - # (1,10.8,1, Hyd', None) - # No append method so Error. a append (100) a. add(set ()) _ # Error set invid set (Nested set) not valid. a. add([]) - # Error list connot be valid as it is mutable.