Day-10' Set It is used to store multiple item in single variables. * Set items are unchangeable, but you can add and remove the items. Eset are in Eurly brackers. @ 3 st are unordered, the result will get appeen. & set don't allow the duplicate values. # largth and Datatype ! Laptop . 'pen' 3 Print (len (this set) -, 4 Print (type (thisset)) -> set. Constructor thiset = Set (('table', 'can', Lap, 'pen'))

print (*yprethiset) of table', 'can', 'lap', 'pen'y we muse Print (type (this set)) tuple bracket ()
but it's set. Ly (class Set'), # duplicates. this set = { 'car', 'taptop', water', Car'} Print Cothesset) -> of 'car', laptor', water 3. is wan't get the dupli coute value. print (len(thuset)) -> 3

can't Count the duplicate values.

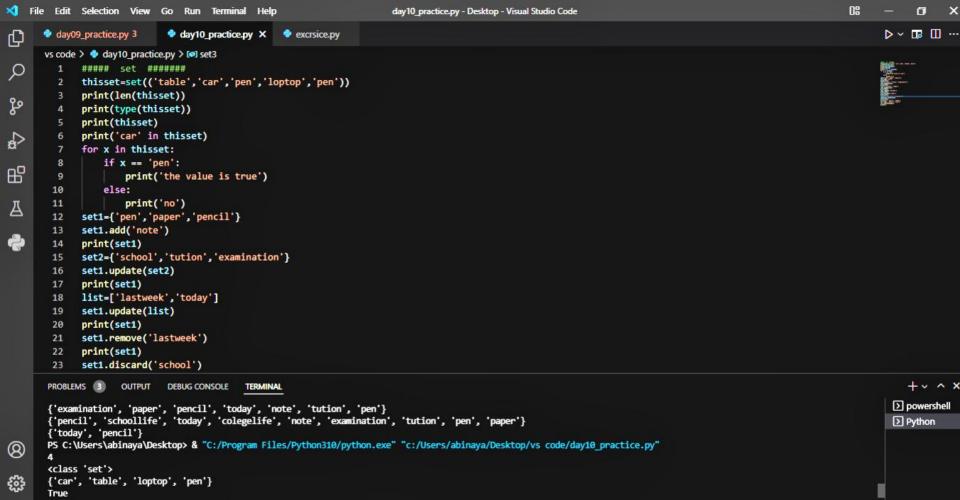
set are unbrdered and No deplicate
Number
administry, waster of the same of the
using Loop Values +
This set = 2' car', Laptop', water', pen'?
for x in thisset:
If X = - 'pen':
Print ('The value is true')
else:
Print ('The Volane is flare')
Ly out Put
The whole is flare
The value in flage
The value is flare
The value is true
the same of the sa
cheak the value
This set & 'car', 'Laptop', water', 'pen' 3
Comment of the second
Print ('Laptop' in this set)
Ly True.
* we cannot change the Itom but will add and
vemove
add the number
set = { 'pen', 'paper', 'pencil'3
set. odd e. ('Note')
print (set) , ('pers', 'papar', 'Pencil', 'Note'
pen'3.
& set has not appribute "append".

```
all the result are changenorderable
X. In set
         changed all Ames.
will be
# update the value
 Set = & Pen', 'paper', Notes' }
 set = f'school', 'tution', 'examination' }
  seti. explate (set 2)
  Print (set 1) -> { 'pen', 'papen', 'Notes', 'school' itutton'
            examination's
 # ad update List value
 set 1 = fipen, paper, Noter 3
  set = f' to day', 'y exterday'?
   set 1. update Eset).
   Print Leeti)
           L) { 'pass 'paper', 'Notes', 'today, 'par', 'pen', ].
                            'yesterday'z
  i here wan't use 'add' key word.
 # remove values
   set). remove (Yesterday')
     Print (set,)
           4 f'protes', today','.pen! (paper')
 # dis early means vomove
     uning discard.
      set, discard ('today')
     Print Getig
            Ly of Notes', pen, paper 3
      POP keyword.

L) Can use values use onely loder valuet.
      sett. popt)
      print (sorth > &'Notes', 'pen' 3
     : POP (7) here we can't mention anything be
              removed.
```

```
# for Loop.
   set = f' blue', black', 'red'.
   for xo in set:
        Print (X) blue
 # using union
   set = { 'blue', black', 'red'}
   Set 1 = {1, 2, 3}
 set 3 - set, union (set).
    Print (set 3)
              > 5 'blue', 2, 'red', 3, 1, 'black }
# Intersection
       In sets, the items and Contains, that are
 Present in both bets.
     X = { ! car', bike', cycle', bus' 3
     Y = f 'bike', bevry', proplene' 3
      Z = X. Intersection(Y)
       print (Z). must there two

' bike's value in are same
                              in sets
   # B smettric - difference ()
         z = x . symottric . diffrence (y)
         print (Z).
             1, {b)xe3 -
```



```
D ~ 113 111 ...
凸
      day09_practice.py 3
                               day10_practice.py X
                                                     excrsice.py
       vs code > day10_practice.py > [0] set3
                       hi THE FILE SOTUE TO CLUE !
        10
                   else:
        11
                       print('no')
              set1={'pen','paper','pencil'}
              set1.add('note')
        14
              print(set1)
set2={'school','tution','examination'}
             set1.update(set2)
              print(set1)
              list=['lastweek','today']
              set1.update(list)
              print(set1)
              set1.remove('lastweek')
              print(set1)
              set1.discard('school')
        24
              print(set1)
              set3={'schoollife','colegelife'}
              set5=set1.union(set3)
              print(set5)
             x={'paper','pencil','today'}
             y={'today','pencil','list'}
              z=x.intersection(y)
              print(z)
        31
       PROBLEMS 3
                                                                                                                                                                                + ~ ^ X
                     OUTPUT
                              DEBUG CONSOLE
                                              TERMINAL
                                                                                                                                                                             > powershell
       {'tution', 'paper', 'lastweek', 'pencil', 'school', 'examination', 'pen', 'today', 'note'}
        {'tution', 'paper', 'pencil', 'school', 'examination', 'pen', 'today', 'note'}
                                                                                                                                                                             > Python
       {'tution', 'paper', 'pencil', 'examination', 'pen', 'today', 'note'}
        ('examination', 'tution', 'pen', 'paper', 'colegelife', 'today', 'note', 'pencil', 'schoollife'}
(Q)
       {'today', 'pencil'}
       PS C:\Users\abinaya\Desktop> c:; cd 'c:\Users\abinaya\Desktop'; & 'C:\Program Files\Python310\python.exe' 'c:\Users\abinaya\.vscode\extensions\ms-python.python.python-2022
£63
        .3.10771003\pythonFiles\lib\p c:; cd 'c:\Users\abinaya\Desktop'; & 'C:\Program Files\Python310\python.exe' 'c:\Users\abinaya\.vscode\extensions\ms-python.python-2022
        .3.10771003\pythonFiles\lib\python\debugpy\launcher' '52128' '--' 'c:\Users\abinaya\Desktop\vs code\day06 excersice1.py'
```