Day-08

List

List = ['maths', 'science', 'Tamil', 205]

(i). List.append

↳ add the value.

List.append (2005).

↳ ['maths', 'science', 'Tamil', 205, 2005].

(ii) LIST. ~~input~~ insert

↳ elements are in specified position.

List.insert (0, 'English').

↳ ['maths', 'English', 'science', 'Tamil', 205]

(iii) LIST. [redacted] extend

↳ we will add two list values.

append means only add the value can't add list. LIST1 = [2, 4, 5, 6].

list.extend (LIST1)

↳ [2, 4, 5, 6, 'maths', 'science', 'Tamil', 205]

(iv) sum ().

LIST = [1, 2, 3, 4, 5]

print (sum (LIST))

↳ 15.

(v) ∴ Condition: sum is only used in Integer values. (Numeric values).

(v). Count ()

↳ Calculate total occurrence of given element of List.

List. Count (element).

↳ How many time that element is came we get the output.

(x). List = [1, 2, 3, 4, 5, 6, 7, 8]

pop()

↳ index is not necessary parameter, If not mentioned takes the last index.

List.pop [index]:

print(List.pop()) → 5 → This is last value

↳ index not there means print last word.

List.pop(1) → 2.

(xi) del() →

↳ del, List [index] → del and List there is not (•) only space.

del, list(0).

print(list) = [2, 3, 4, 5]

(xii) remove.

list.remove(value). we have give the inside the list value then only It will give output.

List.remove(3).

Print(list).

= [1, 2, 4, 5].

Create empty List

my List = []

print List → []

Nested List

2(0) 2(1)

List = [1, 2 ['car', 'bike'], [5, 6]]

0 1 2 3 4

You wanna get car result means,

print(List[2][0]).

↳ 'car' →

Index value.

List = [10, 25, 30, 36, 41, 48].

print (List[-1])

↳ 48

(-) means output is start from last.

print (List[::-1])

↳ [48, 41, 36, 30, 25, 10].

(::) it will be print start from first.

print (List[4]) square bracket.

↳ 41.

Slicing.

print (List[0:2]) it will be print. (0:2-1)

↳ [10, 25]

print (List[:5])

↳ [10, 25, 36, 41]

↳ there is no starting index means it will be print from the start till mention end.

- print (List [2:])
  ↳ [36, 41, 48.]

∴ it will be print after the index 2 values.

print (list [::2]).
↳ [10, 30, 41].
(and)
print (list (::3),
↳ [10, 36]

List.sort()
print (list).

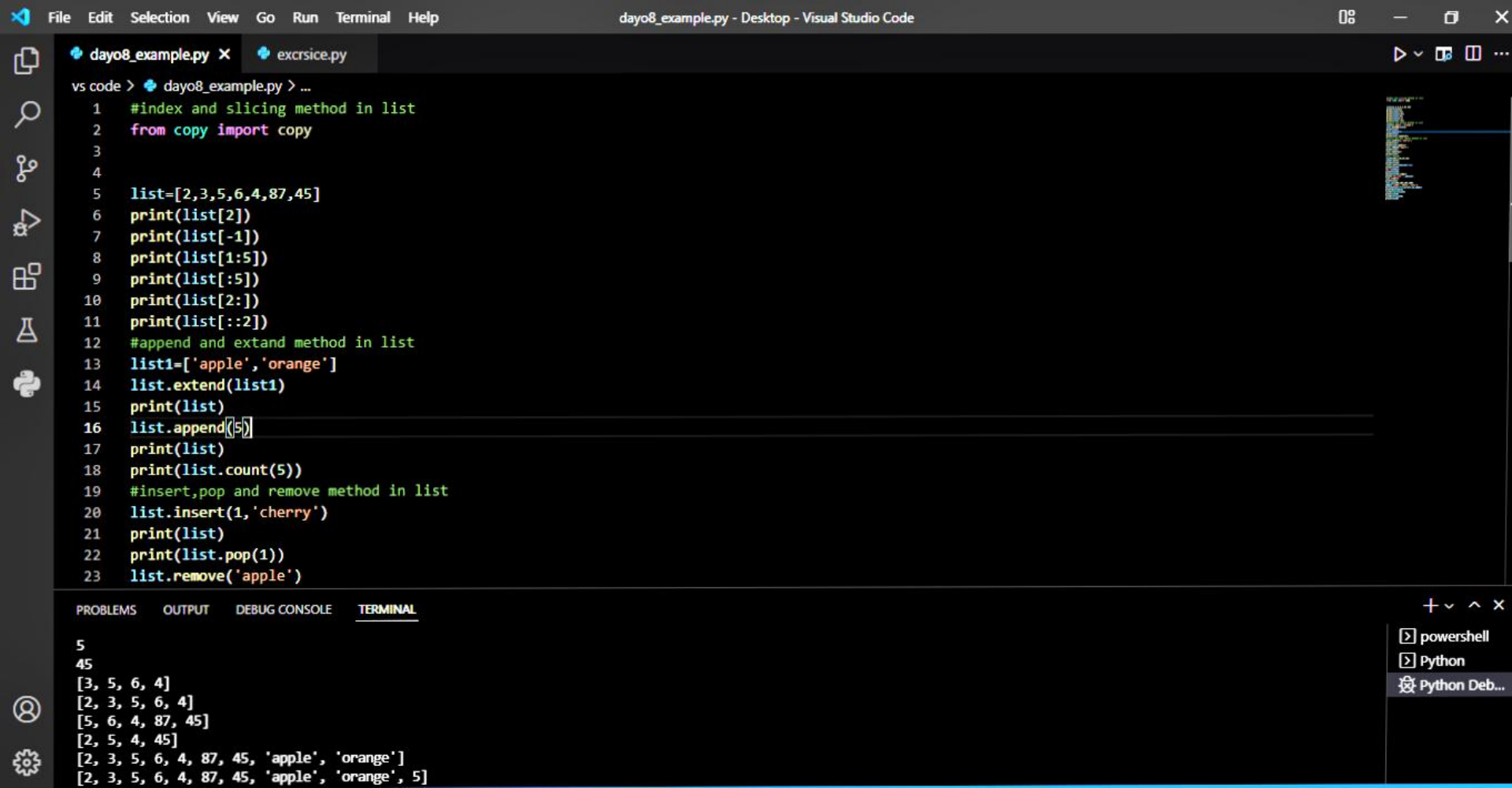
List.sort (reverse = True)
print (list).

myList = list.copy().
print (myList)

# List to dictionary
List10 = [1, 2, 3, 4].
List2 = ['Jaadu', 'koli', 'Dhoni']

dictonary = dict [zip (List1, List2)].

# Change to tuple
List = tuple (List)
↳ print (list).
↳ we get a result in tuple datatype.


File Edit Selection View Go Run Terminal Help
dayo8_example.py - Desktop - Visual Studio Code
dayo8_example.py
excrsice.py
vs code > dayo8_example.py > ...
#index and slicing method in list
from copy import copy
list=[2,3,5,6,4,87,45]
print(list[2])
print(list[-1])
print(list[1:5])
print(list[:5])
print(list[2:])
print(list[::2])
#append and extand method in list
list1=['apple','orange']
list.extend(list1)
print(list)
list.append(5)
print(list)
print(list.count(5))
#insert,pop and remove method in list
list.insert(1,'cherry')
print(list)
print(list.pop(1))
list.remove('apple')
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
5
45
[3, 5, 6, 4]
[2, 3, 5, 6, 4]
[5, 6, 4, 87, 45]
[2, 5, 4, 45]
[2, 3, 5, 6, 4, 87, 45, 'apple', 'orange']
[2, 3, 5, 6, 4, 87, 45, 'apple', 'orange', 5]
powershell
Python
Python Deb...

dayo8_example.py | excrsice.py

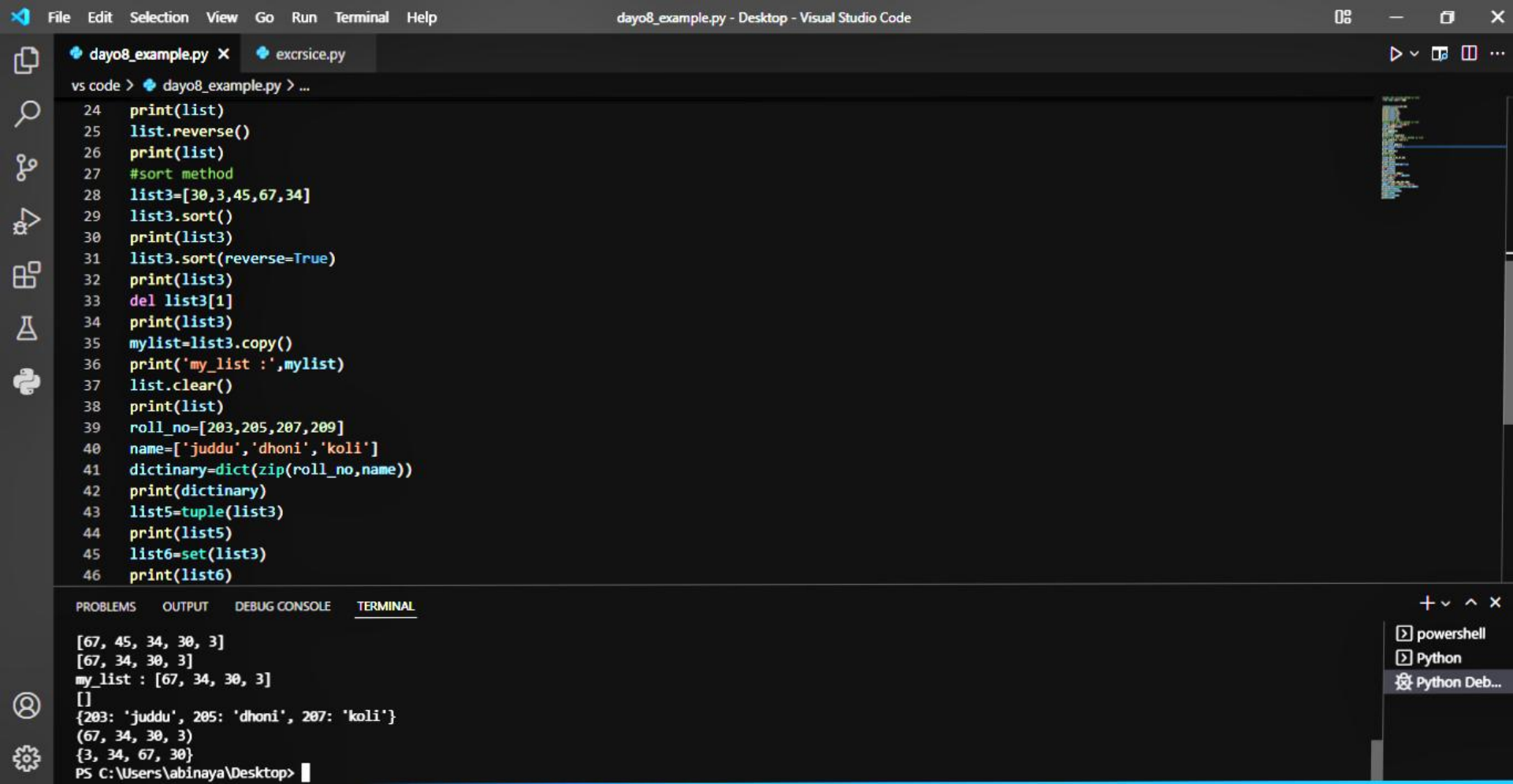
vs code > dayo8_example.py > ...

```
print(list)
list.reverse()
print(list)
#sort method
list3=[30,3,45,67,34]
list3.sort()
print(list3)
list3.sort(reverse=True)
print(list3)
del list3[1]
print(list3)
mylist=list3.copy()
print('my_list :',mylist)
list.clear()
print(list)
roll_no=[203,205,207,209]
name=['juddu','dhoni','koli']
dictinary=dict(zip(roll_no,name))
print(dictinary)
list5=tuple(list3)
print(list5)
list6=set(list3)
print(list6)
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
[5, 'orange', 45, 87, 4, 6, 5, 3, 2]
[3, 30, 34, 45, 67]
[67, 45, 34, 30, 3]
[67, 34, 30, 3]
my_list : [67, 34, 30, 3]
[]
{203: 'juddu', 205: 'dhoni', 207: 'koli'}
(67, 34, 30, 3)
```

powershell
Python
Python Deb...


File Edit Selection View Go Run Terminal Help
dayo8_example.py - Desktop - Visual Studio Code
dayo8_example.py
excrsice.py
vs code > dayo8_example.py > ...
print(list)
list.reverse()
print(list)
#sort method
list3=[30,3,45,67,34]
list3.sort()
print(list3)
list3.sort(reverse=True)
print(list3)
del list3[1]
print(list3)
mylist=list3.copy()
print('my_list :',mylist)
list.clear()
print(list)
roll_no=[203,205,207,209]
name=['juddu','dhoni','koli']
dictinary=dict(zip(roll_no,name))
print(dictinary)
list5=tuple(list3)
print(list5)
list6=set(list3)
print(list6)
PROBLEMS
OUTPUT
DEBUG CONSOLE
TERMINAL
[67, 45, 34, 30, 3]
[67, 34, 30, 3]
my_list : [67, 34, 30, 3]
[]
{203: 'juddu', 205: 'dhoni', 207: 'koli'}
(67, 34, 30, 3)
{3, 34, 67, 30}
PS C:\Users\abinaya\Desktop>
powershell
Python
Python Deb...