

```
➊ f string .py > ...
1   # Q-1. What Will Be The Output Of The Following Code Snippet?
2   a = {(1,2):1,(2,3):2}
3   print(a[1,2])
4   # A. Key Error
5   # B. 1
6   # C. {(2,3):2}
7   # D. {(1,2):1}
8
9
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
PS C:\Users\DELL\Desktop\python coding> & C:/Users/DELL/AppData/Local/Pr
Users/DELL/Desktop/python coding/f string .py"
```

```
1
```

```
PS C:\Users\DELL\Desktop\python coding>
```

```
 f string .py > ...
1  # Q-2. What Will Be The Output Of The Following Code Snippet?
2  a = {'a':1,'b':2,'c':3}
3  print (a['a','b'])
4  print(a.get('a','b'))
5  # A. Key Error
6  # B. [1,2]
7  # C. {'a':1,'b':2}
8  # D. (1,2)
9
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
PS C:\Users\DELL\Desktop\python coding> & C:/Users/DELL/AppData/Local/Programs/  
/Users/DELL/Desktop/python coding/f string .py"  
Traceback (most recent call last):  
  File "c:\Users\DELL\Desktop\python coding\f string .py", line 3, in <module>  
    print (a['a','b'])  
           ~~~~~~  
KeyError: ('a', 'b')  
PS C:\Users\DELL\Desktop\python coding>
```

```
.. out by insert.py dic input&sum.py acs&dsc of dic 1.py lambda function 1.py f string .py > addone
1 #Q-3. What Will Be The Output Of The Following Code Snippet?
2 fruit = {}
3 def addone(index):
4     if index in fruit:
5         fruit[index] += 1
6     else:
7         fruit[index] = 1
8
9 addone('Apple')
10 addone('Banana')
11 addone('apple')
12 print (len(fruit))
13 # A. 1
14 # B. 2
15 # C. 3
16 # D. 4
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

PS C:\Users\DELL\Desktop\python coding> & C:/Users/DELL/AppData/Local/Programs/Python/Python37-32/python coding/f_string .py"
3
PS C:\Users\DELL\Desktop\python coding>

```
f string .py > ...
1  #Q-4. What Will Be The Output Of The Following Code Snippet?
2  arr = {}
3  arr[1] = 1
4  arr['1'] = 2
5  arr[1] += 1
6  sum = 0
7  for k in arr:
8      sum += arr[k]
9  print (sum)
10 # A. 1
11 # B. 2
12 # C. 3
13 # D. 4
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
PS C:\Users\DELL\Desktop\python coding> & C:/Users/DELL/AppData/Local/Programs/Python/3.8/python f string .py"
4
PS C:\Users\DELL\Desktop\python coding>
```

```
1 #Q-5. What Will Be The Output Of The Following Code Snippet?
2 my_dict = {}
3 my_dict[1] = 1
4 my_dict['1'] = 2
5 my_dict[1.0] = 4
6 sum = 0      (variable) my_dict: dict
7 for k in
8 | sum += my_dict[k]
9
10 print (sum)
11 # A. 7
12 # B. Syntax error
13 # C. 3
14 # D. 6
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
PS C:\Users\DELL\Desktop\python coding> & C:/Users/DELL/AppData/Local/Programs/Python/3.9/python coding/f string .py"
6
PS C:\Users\DELL\Desktop\python coding>
```

```
1 #Q-6. What Will Be The Output Of The Following Code Snippet?
2 my_dict = {}
3 my_dict[(1,2,4)] = 8
4 my_dict[(4,2,1)] = 10
5 my_dict[(1,2)] = 12
6 sum = 0
7 for k in my_dict:
8     sum += my_dict[k]
9 print (sum)
10 print(my_dict)
11 # A. Syntax error
12 # B. 30
13 #  {(1, 2): 12, (4, 2, 1): 10, (1, 2, 4): 8}
14 # C. 47
15 #  {(1, 2): 12, (4, 2, 1): 10, (1, 2, 4): 8}
16 # D. 30
17 #  {[1, 2]: 12, [4, 2, 1]: 10, [1, 2, 4]: 8}
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
PS C:\Users\DELL\Desktop\python coding> & C:/Users/DELL/AppData/Local/
/Users/DELL/Desktop/python coding/f string .py"
30
{(1, 2, 4): 8, (4, 2, 1): 10, (1, 2): 12}
PS C:\Users\DELL\Desktop\python coding>
```

```
2 #Q-7. What Will Be The Output Of The Following Code
3 box = {}
4 jars = {}
5 crates = {}
6 box['biscuit'] = 1
7 box['cake'] = 3
8 jars['jam'] = 4
9 crates['box'] = box
10 crates['jars'] = jars
11 print (len(crates[box]))
12 # A. 1
13 # B. 3
14 # C. 4
15 # D. Type Error
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
Users/Dell/Desktop/python coding/f string .py"
raceback (most recent call last):
  File "c:\Users\DELL\Desktop\python coding\f string .py",
    print (len(crates[box]))
               ~~~~~^~~~~~
TypeError: unhashable type: 'dict'
S C:\Users\DELL\Desktop\python coding>
```

```
1 #Q-9. What Will Be The Output Of The Following Code Snippet?
2 rec = {"Name" : "Python", "Age":"20"}
3 r = rec.copy()
4 print(id(r) == id(rec))
5 # A. True
6 # B. False
7 # C. 0
8 # D. 1
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
PS C:\Users\DELL\Desktop\python coding> & C:/Users/DELL/AppData/Local
/Users/DELL/Desktop/python coding/f string .py"
False
PS C:\Users\DELL\Desktop\python coding>
```

```
1  #What Will Be The Output Of The Following Code Snippet?
2  dict = {'c': 97, 'a': 96, 'b': 98}
3  for _ in sorted(dict):
4      print (dict[_])
5  # A. 96 98 97
6  # B. 96 97 98
7  # C. 98 97 96
8  # D. NameError
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
PS C:\Users\DELL\Desktop\python coding> & C:/Users/DELL/AppData/Local
/Users/DELL/Desktop/python coding/f string .py"
96
98
97
PS C:\Users\DELL\Desktop\python coding>
```

```
1 #Q-9. What Will Be The Output Of The Following Code Snippet?
2 rec = {"Name" : "Python", "Age":"20"}
3 r = rec.copy()
4 print(id(r) == id(rec))
5 # A. True
6 # B. False
7 # C. 0
8 # D. 1
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
PS C:\Users\DELL\Desktop\python coding> & C:/Users/DELL/AppData/Local
/Users/DELL/Desktop/python coding/f string .py"
False
PS C:\Users\DELL\Desktop\python coding>
```

```
1 #Q-10. What Will Be The Output Of The Following Code Snippet?
2 rec = {"Name" : "Python", "Age":20, "Addr" : "NJ", "Country" : "US"
3 id1 = id(rec)
4 del rec
5 rec = {"Name" : "Python", "Age":20, "Addr" : "NJ", "Country" : "US"
6 id2 = id(rec)
7 print(id1 == id2)
8 # A. True
9 # B. False
10 # C. 1
11 # D. Exception
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
PS C:\Users\DELL\Desktop\python coding> & C:/Users/DELL/AppData/Local/Programs/Python/3.9/python coding/f string .py"
True
PS C:\Users\DELL\Desktop\python coding>
```

Python Dictionary [38 exercises]

```
1 #Write a Python script to add a key to a dictionary
2 dic={8:6,3:4,7:2,5:8,4:9}
3 dic[6]=2
4 print(dic)
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
PS C:\Users\DELL\Desktop\python coding> & C:/Users/DELL/AppData/Local/Pr
/Users/DELL/Desktop/python coding/f string .py"
True
PS C:\Users\DELL\Desktop\python coding>
```

```
1 #Write a Python script to sort (ascending and descending) a dictionary by value.
2 dic={8:6,3:4,7:2,5:8,4:9}
3 asc=sorted(dic.values())
4 print("ascending order of dic",asc)
5 dsc=sorted(dic.values(),reverse=True)
6 print("descendind order of dic",dsc)
7
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

Python

```
PS C:\Users\Dell\Desktop\python coding> & C:/Users/Dell/AppData/Local/Programs/Python/Python37-32/python coding/f string .py"
True
```

```
1 #Write a Python script to concatenate following dictionaries to create a new one.
2 dic1={1:10, 2:20}
3 dic2={3:30, 4:40}
4 dic3={5:50,6:60}
5 dic1.update(dic2)
6 dic1.update(dic3)
7 print(dic1)
8
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

Python

```
PS C:\Users\Dell\Desktop\python coding> & C:/Users/Dell/AppData/Local/Programs/Python/Python37-32/python coding/concatenate dic 3.py"
{1: 10, 2: 20, 3: 30, 4: 40, 5: 50, 6: 60}
```

```
1  #Write a Python program to iterate over dictionaries using for
2  dic={"car":"Rolls Royce","fruit":"mango","day":"sunday"}
3  # first method to iterate
4  ✓ for key,value in dic.items():
5      |   print(key,":",value)
6  #second method
7  ✓ for key in dic:
8      |   print(key,":",dic[key])
9
10
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
car : Rolls Royce
fruit : mango
day : sunday
car : Rolls Royce
fruit : mango
day : sunday
PS C:\Users\DELL\Desktop\python coding>
```

```
1  '''Write a Python script to generate and print a dictionary that contains a number
2  (between 1 and n) in the form (x, x*x)
3  Sample Dictionary ( n = 5) :
4  Expected Output : {1: 1, 2: 4, 3: 9, 4: 16, 5: 25}'''
5  dic={}
6  n=int(input("enter the number of elements"))
7  for key in range(1,n+1):
8      dic[key]=key**2
9  print(dic)
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

Python + ▾

```
PS C:\Users\DELL\Desktop\assignment 2nd python> & C:/Users/DELL/AppData/Local/Programs/Python/Python.exe "c:/Users/DELL/Desktop/assignment 2nd python/que 6 of dic.py"
enter the number of elements 5
{1: 1, 2: 4, 3: 9, 4: 16, 5: 25}
PS C:\Users\DELL\Desktop\assignment 2nd python>
```

```
1  '''Write a Python script to print a dictionary where the keys are numbers between 1 and
2  15 (both included) and the values are square of keys.
3  Sample Dictionary
4  {1: 1, 2: 4, 3: 9, 4: 16, 5: 25, 6: 36, 7: 49, 8: 64, 9: 81, 10: 100, 11: 121, 12: 144, 13:
5  14: 196, 15: 225}'''
6  dic={}
7  for key in range(1,16):
8  |   dic[key]=key**2
9  print(dic)
10
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

PS C:\Users\DELL\Desktop\assignment 2nd python> & C:/Users/DELL/AppData/Local/Programs/Python/Python311/python.exe "c:/Users/DELL/Desktop/assignment 2nd python/que 7 of dic"
{1: 1, 2: 4, 3: 9, 4: 16, 5: 25, 6: 36, 7: 49, 8: 64, 9: 81, 10: 100, 11: 121, 12: 144, 13: 169, 14: 196, 15: 225}
PS C:\Users\DELL\Desktop\assignment 2nd python>

```
1 #Write a Python script to merge two Python dictionaries.
2 l1=['x',1,'y',2]
3 l2=['a',5,'b',7]
4 dic= (variable) dic: dict
5 for
6 |   dic[l1[k]]=l2[k]
7 print(dic)
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
PS C:\Users\DELL\Desktop\assignment 2nd python> & C:/Users/DELL/AppData/Local
.exe "c:/Users/DELL/Desktop/assignment 2nd python/que 8 of dic.py"
{'x': 'a', 1: 5, 'y': 'b', 2: 7}
```

```
1 #Write a Python program to iterate over dictionaries using for loops.
2 dic={"car":"Rolls Royce", "fruit":"mango", "day":"sunday"}
3 # first method to iterate
4 for key,value in dic.items():
5     print(key,":",value)
6 #second method
7 for key in dic:
8     print(key,":",dic[key])
9
10 |
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

[> Py

```
car : Rolls Royce
fruit : mango
day : sunday
car : Rolls Royce
fruit : mango
day : sunday
```

```
1 #Write a Python program to sum all the items in a dictionary
2 d={1: 3, 2: 4, 3: 9, 4: 16, 5: 25}
3 m=0
4 for i in d:
5     m=m+d[i]
6 print(m) |
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
PS C:\Users\DELL\Desktop\assignment 2nd python> & C:/Users/DELL/AppData/Local/Programs/Python/3.8.5/python.exe "c:/Users/DELL/Desktop/assignment 2nd python/que 10 sum of elements of dic.py"
57
```

```
1 #Write a Python program to multiply all the items in a dictionary.
2
3 d={1: 3, 2: 4, 3: 9, 4: 16, 5: 25}
4 m=1
5 for i in d:
6     m=m*d[i]
7 print(m)
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
PS C:\Users\DELL\Desktop\assignment 2nd python> & C:/Users/DELL/AppData/Local/Programs/Python/3.8.5/python.exe "c:/Users/DELL/Desktop/assignment 2nd python/que 11 multiply of dict.py"
43200
```

```
1 # Write a Python program to remove a key from a dictionary.
2 myDict = {'a':1,'b':2,'c':3,'d':4}
3 print(myDict)
4 if 'a' in myDict:
5     del myDict['a']
6 print(myDict)
7
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
PS C:\Users\DELL\Desktop\assignment 2nd python> & C:/Users/DELL/App
.exe "c:/Users/DELL/Desktop/assignment 2nd python/que 12"
{'a': 1, 'b': 2, 'c': 3, 'd': 4}
{'b': 2, 'c': 3, 'd': 4}
```

```
1 #Write a Python program to map two lists into a dictionary
2 l1=['x',1,'y',2]
3 l2=['a',5,'b',7]
4 dic={}
5 for k in range(len(l1)):
6     dic[l1[k]]=l2[k]
7 print(dic)
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
PS C:\Users\DELL\Desktop\assignment 2nd python> & C:/Users/DELL/PycharmProjects/PycharmProject1/venv/Scripts/python.exe "c:/Users/DELL/Desktop/assignment 2nd python/que 13 map two lists.py"
{'x': 'a', 1: 5, 'y': 'b', 2: 7}
```

```
1 # Write a Python program to sort a dictionary by key
2 dic={'a':1,'z':2,'r':2,'g':6}
3 dic2=sorted(dic.keys())
4 print(dic2)
5
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
PS C:\Users\DELL\Desktop\assignment 2nd python> & C:/Users/DELL,
.exe "c:/Users/DELL/Desktop/assignment 2nd python/que 14"
['a', 'g', 'r', 'z']
```

```
1 #Write a Python program to get the maximum and minimum value in a dictionary.
2 d={1: 3, 2: 4, 3: 9, 4: 16, 5: 25}
3 dic1=max(d.values())
4 print(dic1)
5 dic2=min(d.values())
6 print(dic2)
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

Python

```
PS C:\Users\DELL\Desktop\assignment 2nd python> & C:/Users/DELL/AppData/Local/Programs/Python.exe "c:/Users/DELL/Desktop/assignment 2nd python/que 15 check max&min in dict.py"
25
3
```

```
1 #Write a Python program to get a dictionary from an object's fields.
2 class dictObj(object):
3     def __init__(self):
4         self.x = 'red'
5         self.y = 'Yellow'
6         self.z = 'Green'
7     def do_nothing(self):
8         pass
9 test = dictObj()
10 print(test.__dict__)
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
PS C:\Users\DELL\Desktop\assignment 2nd python> & C:/Users/DELL/AppData/Local/Programs/Python/Python37-32/python.exe "c:/Users/DELL/Desktop/assignment 2nd python/que 16"
{'x': 'red', 'y': 'Yellow', 'z': 'Green'}
```

```
1 #Write a Python program to remove duplicates from Dictionary.
2 d={1: 3, 2: 3, 3: 0, 4: 16, 5: 25}
3 d1=d.values()
4 for i in d1:
5     if i==i+1:
6         print("yes")
7     else:
8         break
9     else:
10        print("no")
11        break
12
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

PS C:\Users\DELL\Desktop\assignment 2nd python> & C:/Users/DELL/AppData/.exe "c:/Users/DELL/Desktop/assignment 2nd python/que 17 to remove dupl no

```
1 # Write a Python program to check a dictionary is empty or not.
2 my_dict={}
3 if len(my_dict)==0:
4     print("it's a empty dictionary")
5 else:
6     print("not empty dictionary")
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
PS C:\Users\DELL\Desktop\assignment 2nd python> & C:/Users/DELL/AppData/Local
.exe "c:/Users/DELL/Desktop/assignment 2nd python/que 18 check empty dict.py"
it's a empty dictionary
PS C:\Users\DELL\Desktop\assignment 2nd python>
```

```
1 | #Write a Python program to combine two dictionary adding values for common keys.
2 | d1 = {'a': 100, 'b': 200, 'c':300}
3 | d2 = {'a': 300, 'b': 200, 'd':400}
4 | d3={}
5 | for i in d1:
6 |     if i in d2:
7 |         d1[i]=d1[i]+d2[i]
8 |     d2[i]=d1[i]
9 | print(d2)
10 |
```

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL Python
PS C:\Users\DELL\Desktop\assignment_2nd python> & C:/Users/DELL/AppData/Local/Programs/Python.exe "c:/Users/DELL/Desktop/assignment_2nd python/que_19.py"
{'a': 400, 'b': 400, 'd': 400, 'c': 300}
PS C:\Users\DELL\Desktop\assignment_2nd python>
```

```
1 '''Write a Python program to print all unique values in a dictionary. Sample Data :  
2 [{"V": "S001"}, {"V": "S002"}, {"VI": "S001"}, {"VI": "S005"}, {"VII": "S005"},  
3 {"V": "S009"}, {"VIII": "S007"}]  
4 Expected Output : Unique Values: {'S005', 'S002', 'S007', 'S001', 'S009'}'''  
5 L = [{"V": "S001"}, {"V": "S002"}, {"VI": "S001"}, {"VI": "S005"}, {"VII": "S005"}, {"V": "S009"}, {"VIII": "S007"}]  
6 print("Original List: ",L)  
7 u_value = set( val for dic in L for val in dic.values())  
8 print("Unique Values: ",u_value)
```

```
1  ''' . Write a Python program to create and display all combinations of letters, selecting
2  each letter from a different key in a dictionary.
3  Sample data : {'1':['a','b'], '2':['c','d']}
4  Expected Output:
5  ac
6  ad
7  bc
8  bd'''
```

```
9  import itertools
```

```
10 d ={'1':['a','b'], '2':['c','d']}
```

```
11 for combo in itertools.product(*[d[k] for k in sorted(d.keys())]):
```

```
12     print(''.join(combo))
```

```
13
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

Python + ▾

```
PS C:\Users\DELL\Desktop\assignment 2nd python> & C:/Users/DELL/AppData/Local/Programs/Python/Python311
.exe "c:/Users/DELL/Desktop/assignment 2nd python/que 21.py"
ac
ad
bc
bd
```

```
1  #Write a Python program to find the highest 3 values in a dictionary.
2  dic={1:9,2:3,3:7,4:8,6:10}
3  dsc=sorted(dic.values(),reverse=True)
4  print(dsc)
5  for i in range(0,3):
6      print(dsc[i])
7
8
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
PS C:\Users\DELL\Desktop\assignment 2nd python> & C:/Users/DELL/AppData/Local/.exe "c:/Users/DELL/Desktop/assignment 2nd python/que 22.py"
[10, 9, 8, 7, 3]
10
9
8
```

```
1  ''' Write a Python program to combine values in python list of dictionaries.
2  Sample data: [ {'item': 'item1', 'amount': 400}, {'item': 'item2', 'amount': 300}, {'item':
3  'item1', 'amount': 750}]
4  Expected Output: Counter({'item1': 1150, 'item2': 300})'''
5  from collections import Counter
6  item_list = [ {'item': 'item1', 'amount': 400}, {'item': 'item2', 'amount': 300}, {'item': 'i
7  result = Counter()
8  for d in item_list:
9      result[d['item']] += d['amount']
10 print(result)
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

PS C:\Users\DELL\Desktop\assignment 2nd python> & C:/Users/DELL/AppData/Local/Programs/Python/Python38.exe "c:/Users/DELL/Desktop/assignment 2nd python/que 23"
Counter({'item1': 1150, 'item2': 300})
PS C:\Users\DELL\Desktop\assignment 2nd python>

```
1  '''Write a Python program to create a dictionary from a string.
2  Note: Track the count of the letters from the string.
3  Sample string : 'w3resource'
4  Expected output: {'3': 1, 's': 1, 'r': 2, 'u': 1, 'w': 1, 'c': 1, 'e': 2, 'o': 1}'''
5  str=input("enter a string")
6  print("string is=",str)
7  dic={}
8  for k in str:
9      if k in dic.keys():
10         dic[k]+=1
11     else:
12         dic[k]=1
13 print(dic)
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

PS C:\Users\DELL\Desktop\assignment 2nd python> & C:/Users/DELL/AppData/Local/Programs/Python/Python38.exe "c:/Users/DELL/Desktop/assignment 2nd python/que 24.py"
enter a string w3resource
string is= w3resource
{' ': 1, 'w': 1, '3': 1, 'r': 2, 'e': 2, 's': 1, 'o': 1, 'u': 1, 'c': 1}

```
1 # Write a Python program to print a dictionary in table format.
2 dict1 = {}
3 dict1 = {1: ["rahul", 9, 'good'],
4 |         2: ["kshitij", 10, 'player'],
5 |         3: ["harsh", 11, 'student'],
6 |     }
7
8 # Print the names of the columns.
9 print("{:<10} {:<10} {:<10}".format('NAME', 'AGE', 'Character'))
10
11 # print each data item.
12 for key, value in dict1.items():
13     name, age, character = value
14     print("{:<10} {:<10} {:<10}".format(name, age, character))
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
PS C:\Users\DELL\Desktop\assignment 2nd python> & C:/Users/DELL/AppData/.exe "c:/Users/DELL/Desktop/assignment 2nd python/que 25.py"
NAME      AGE      Character
rahul    9        good
kshitij  10       player
harsh   11       student
```

```
1  ''' Write a Python program to count the values associated with key in a dictionary.
2  Sample data= [{"id": 1, "success": True, "name": "Lary"}, {"id": 2, "success": False, "name": "Rabi"}, {"id": 3, "success": True, "name": "Alex"}]
3  Expected result: Count of how many dictionaries have success as True'''
4
5  student = [{"id": 1, "success": True, "name": "Lary"}, 
6  {"id": 2, "success": False, "name": "Rabi"}, 
7  {"id": 3, "success": True, "name": "Alex"}]
8
9  print(sum(d['id'] for d in student))
10 print(sum(d['success'] for d in student))
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

Python +

```
PS C:\Users\DELL\Desktop\assignment 2nd python> & C:/Users/DELL/AppData/Local/Programs/Python/Python31
.exe "c:/Users/DELL/Desktop/assignment 2nd python/que 26"
6
2
```

```
1  #Write a Python program to convert a list into a nested dictionary of keys.
2  num_list = [1, 2, 3, 4]
3  new_dict = current = {}
4  for name in num_list:
5      current[name] = {}
6      current = current[name]
7  print(new_dict)
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

D

```
PS C:\Users\DELL\Desktop\assignment 2nd python> & C:/Users/DELL/AppData/Local/Programs/Python/Python31
.exe "c:/Users/DELL/Desktop/assignment 2nd python/que 27.py"
{1: {2: {3: {4: {}}}}}
```

```
1  #Write a Python program to sort a list alphabetically in a dictionary
2  dict ={ 
3      "L1": [87, 34, 56, 12],
4      "L2": [23, 00, 30, 10],
5      "L3": [1, 6, 2, 9],
6      "L4": [40, 34, 21, 67]
7  }
8
9  print("\nBefore Sorting: ")
10 for x in dict.items():
11     print(x)
12
13 print("\nAfter Sorting: ")
14
15 for i, j in dict.items():
16     sorted_dict ={i:sorted(j)}
17     print(sorted_dict)
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
After Sorting:
{'L1': [12, 34, 56, 87]}
{'L2': [0, 10, 23, 30]}
{'L3': [1, 2, 6, 9]}
{'L4': [21, 34, 40, 67]}
```

```
1 #Write a Python program to remove spaces from dictionary keys
2 Product_list = {'P 01' : 'DBMS', 'P 02' : 'OS',
3 | | | | 'P 0 3 ': 'Soft Computing'}
4
5 # removing spaces from keys
6 # storing them in sam dictionary
7 Product_list = { x.translate({32:None}) : y
8 | | | | for x, y in Product_list.items()}
9
10 # printing new dictionary
11 print (" New dictionary : ", Product_list)
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
PS C:\Users\DELL\Desktop\assignment 2nd python> & C:/Users/DELL/AppData/
.exe "c:/Users/Dell/Desktop/assignment 2nd python/que 29.py"
New dictionary : {'P01': 'DBMS', 'P02': 'OS', 'P03': 'Soft Computing'}
PS C:\Users\DELL\Desktop\assignment 2nd python>
```

```
1 '''Write a Python program to get the top three items in a shop.
2 Sample data: {'item1': 45.50, 'item2':35, 'item3': 41.30, 'item4':55, 'item5': 24}
3 Expected Output:
4 item4 55
5 item1 45.5
6 item3 41.3'''
7 from heapq import nlargest
8 from operator import itemgetter
9 items = {'item1': 45.50, 'item2':35, 'item3': 41.30, 'item4':55, 'item5': 24}
10 for name, value in nlargest(3, items.items(), key=itemgetter(1)):
11     print(name, value)
12
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

Python

```
PS C:\Users\DELL\Desktop\assignment 2nd python> & C:/Users/DELL/AppData/Local/Programs/Python
.exe "c:/Users/DELL/Desktop/assignment 2nd python/que 30.py"
item4 55
item1 45.5
item3 41.3
```

```
1 #Write a Python program to get the key, value and item in a dictionary.
2 dic={1:'hello',2:"how",3:"are",4:'you'}
3 print("key of dictionary=",dic.keys())
4 print("value of dictionary=",dic.values())
5 print("item of dictionary=",dic.items())
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
PS C:\Users\DELL\Desktop\assignment 2nd python> & C:/Users/DELL/AppData/Local/Programs/Python/3.8.5/python.exe "c:/Users/DELL/Desktop/assignment 2nd python/que 31.py"
key of dictionary= dict_keys([1, 2, 3, 4])
value of dictionary= dict_values(['hello', 'how', 'are', 'you'])
item of dictionary= dict_items([(1, 'hello'), (2, 'how'), (3, 'are'), (4, 'you')])
```

```
1 # Write a Python program to print a dictionary line by line
2 dic={1:'hello',2:"how",3:"are",4:'you'}
3 for key in dic:
4     print(key,":",dic[key])
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
PS C:\Users\DELL\Desktop\assignment 2nd python> & C:/Users/DELL/AppData/Local
.exe "c:/Users/DELL/Desktop/assignment 2nd python/que 32.py"
1 : hello
2 : how
3 : are
4 : you
```

```
1 # Write a Python program to check multiple keys exists
2 dic={'a':"hello",'b':"friend",'c':"good"}
3 print(dic.keys() >= {'a',"time"})
4 print(dic.keys() >= {'b',"friend"})
5 print(dic.keys() >= {'c','a'})
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
PS C:\Users\DELL\Desktop\assignment 2nd python> & C:/Users/DELL.exe "c:/Users/DELL/Desktop/assignment 2nd python/que 33.py"
False
False
True
PS C:\Users\DELL\Desktop\assignment 2nd python>
```

```
1 dict = {'A': [1, 2, 3], 'b': [1, 2]}
2 ctr = sum(map(len, dict.values()))
3 print(ctr)
4
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
PS C:\Users\DELL\Desktop\assignment 2nd python> & C:/Us
.exe "c:/Users/DELL/Desktop/assignment 2nd python/que 3
5
```

```
1 ✘ '''Write a Python program to sort Counter by value.
2   Sample data : {'Math':81, 'Physics':83, 'Chemistry':87}
3   Expected data: [('Chemistry', 87), ('Physics', 83), ('Math', 81)]'''
4   d1={'Math':81, 'Physics':83, 'Chemistry':87}
5   d2=sorted(d1.items(),key=lambda x:x[1],reverse=True)
6   print(d2)
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
PS C:\Users\DELL\Desktop\assignment 2nd python> & C:/Users/DELL/AppData/Local,.exe "c:/Users/DELL/Desktop/assignment 2nd python/que 35.py"
[('Chemistry', 87), ('Physics', 83), ('Math', 81)]
```

```
1   '''Write a Python program to create a dictionary from two lists without losing duplicate
2   values.
3   Sample lists: ['Class-V', 'Class-VI', 'Class-VII', 'Class-VIII'], [1, 2, 2, 3]
4   Expected Output: defaultdict(<class 'set'>, {'Class-VII': {2}, 'Class-VI': {2}, 'Class-VIII':
5   {3}, 'Class-V': {1}})'''
6   from collections import defaultdict
7   class_list = ['Class-V', 'Class-VI', 'Class-VII', 'Class-VIII']
8   id_list = [1, 2, 2, 3]
9   temp = defaultdict(set)
10  for c, i in zip(class_list, id_list):
11      temp[c].add(i)
12  print(temp)
13
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

Python + ▾

```
PS C:\Users\DELL\Desktop\assignment 2nd python> & C:/Users/DELL/AppData/Local/Programs/Python/Python311,.exe "c:/Users/DELL/Desktop/assignment 2nd python/que 36.py"
defaultdict(<class 'set'>, {'Class-V': {1}, 'Class-VI': {2}, 'Class-VII': {2}, 'Class-VIII': {3}})
```

```
1  #Write a Python program to replace dictionary values with their sum
2  def sum_math_v_vi_average(list_of_dicts):
3      for d in list_of_dicts:
4          n1 = d.pop('V')
5          n2 = d.pop('VI')
6          d['V+VI'] = (n1 + n2)/2
7      return list_of_dicts
8 student_details= [
9     {'id' : 1, 'subject' : 'math', 'V' : 70, 'VI' : 82},
10    {'id' : 2, 'subject' : 'math', 'V' : 73, 'VI' : 74},
11    {'id' : 3, 'subject' : 'math', 'V' : 75, 'VI' : 86}
12 ]
13 print(sum_math_v_vi_average(student_details))
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
PS C:\Users\DELL\Desktop\assignment 2nd python> & C:/Users/DELL/AppData/Local
.exe "c:/Users/DELL/Desktop/assignment 2nd python/que 37.py"
[{'id': 1, 'subject': 'math', 'V+VI': 76.0}, {'id': 2, 'subject': 'math', 'V+VI': 78.5}, {'id': 3, 'subject': 'math', 'V+VI': 80.5}]
```

```
1 '''Write a Python program to match key values in two dictionaries.
2 Sample dictionary: {'key1': 1, 'key2': 3, 'key3': 2}, {'key1': 1, 'key2': 2}
3 Expected output: key1: 1 is present in both x and y'''
4 x = {'key1': 1, 'key2': 3, 'key3': 2}
5 y = {'key1': 1, 'key2': 2}
6 for (key, value) in set(x.items()) & set(y.items()):
7     print('%s: %s is present in both x and y' % (key, value))
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

[] Py

```
PS C:\Users\DELL\Desktop\assignment 2nd python> & C:/Users/DELL/AppData/Local/Programs
.exe "c:/Users/DELL/Desktop/assignment 2nd python/que 38.py"
key1: 1 is present in both x and y
```