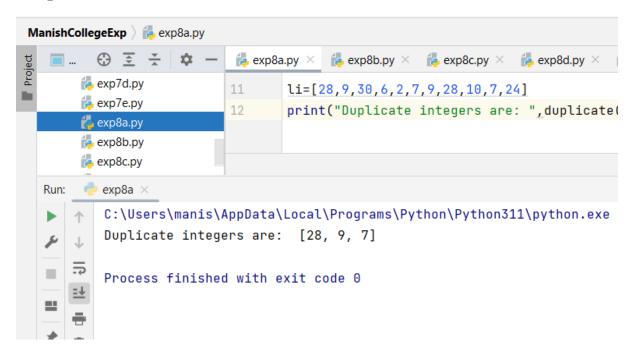
### **Experiment No.8**

**Aim:** Edit/compile/run a program to duplicate all the elements of a list.

### **Program A: Brute force approach**

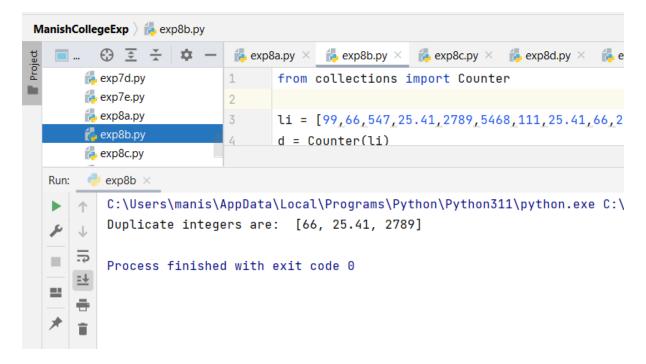
### **Output:**



### **Program B: Counter function**

```
from collections import Counter
li = [99,66,547,25.41,2789,5468,111,25.41,66,2789]
d = Counter(li)
repeated_list = list([num for num in d if d[num]>1])
print("Duplicate integers are: ",repeated list)
```

### **Output:**



### **Program C: Using a single for loop**

```
list=[24,28,357,159,862,248,862,159,357]
uniqueList = []
duplicateList = []

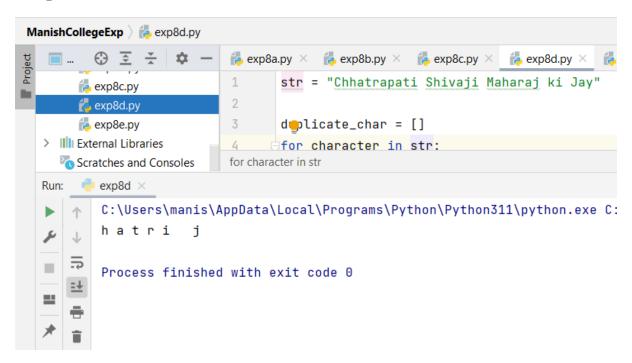
for i in list:
    if i not in uniqueList:
        uniqueList.append(i)
    elif i not in duplicateList:
        duplicateList.append(i)
```

### **Output:**



## Program D: To find duplicate characters in a list

### **Output:**



#### Program E: To find duplicate characters from list using Counter function.

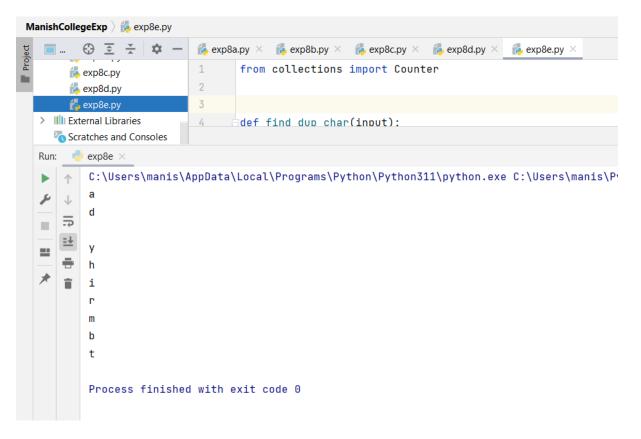
```
from collections import Counter

def find_dup_char(input):
    WC = Counter(input)

    for letter, count in WC.items():
        if (count > 1):
            print(letter)

if __name__ == "__main__":
    input = 'Yada yada hi dharmasya glanirbhavatim bharatah'
    find_dup_char(input)
```

# **Output:**



Practical Performance	Writeup & Oral (4)	Attendance (2)	Total (10)
(4)			