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Practical-5

Aim: Write a program using list.

- Write a Python program to get the smallest number from a list.
- Write a Python program remove duplicated elements from list

a) Write a Python program to get the smallest number from a list.

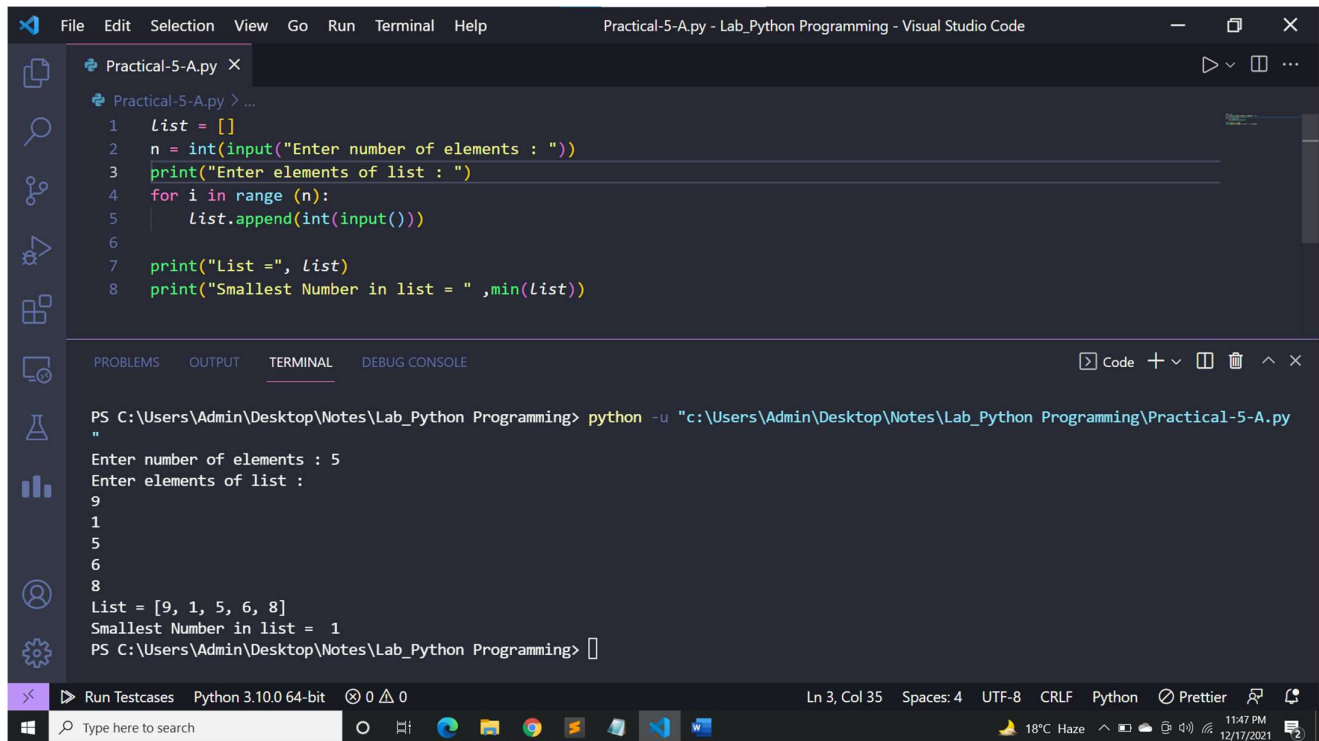
- Program:

```
list = []  
n = int(input("Enter number of elements : "))  
print("Enter elements of list : ")  
for i in range (n):  
    list.append(int(input()))  
  
print("List =", list)  
print("Smallest Number in list = " ,min(list))
```

- Output:

```
Enter number of elements : 5  
Enter elements of list :  
9  
1  
5  
6  
8  
List = [9, 1, 5, 6, 8]  
Smallest Number in list = 1
```

- Screenshot:



The screenshot shows the Visual Studio Code editor with a file named 'Practical-5-A.py'. The code in the editor is as follows:

```
1 list = []
2 n = int(input("Enter number of elements : "))
3 print("Enter elements of list : ")
4 for i in range (n):
5     list.append(int(input()))
6
7 print("List =", list)
8 print("Smallest Number in list = ",min(list))
```

The terminal window at the bottom shows the execution of the program:

```
PS C:\Users\Admin\Desktop\Notes\Lab_Python Programming> python -u "c:\Users\Admin\Desktop\Notes\Lab_Python Programming\Practical-5-A.py"
Enter number of elements : 5
Enter elements of list :
9
1
5
6
8
List = [9, 1, 5, 6, 8]
Smallest Number in list = 1
PS C:\Users\Admin\Desktop\Notes\Lab_Python Programming>
```

b) Write a Python program remove duplicated elements from list

- Program:

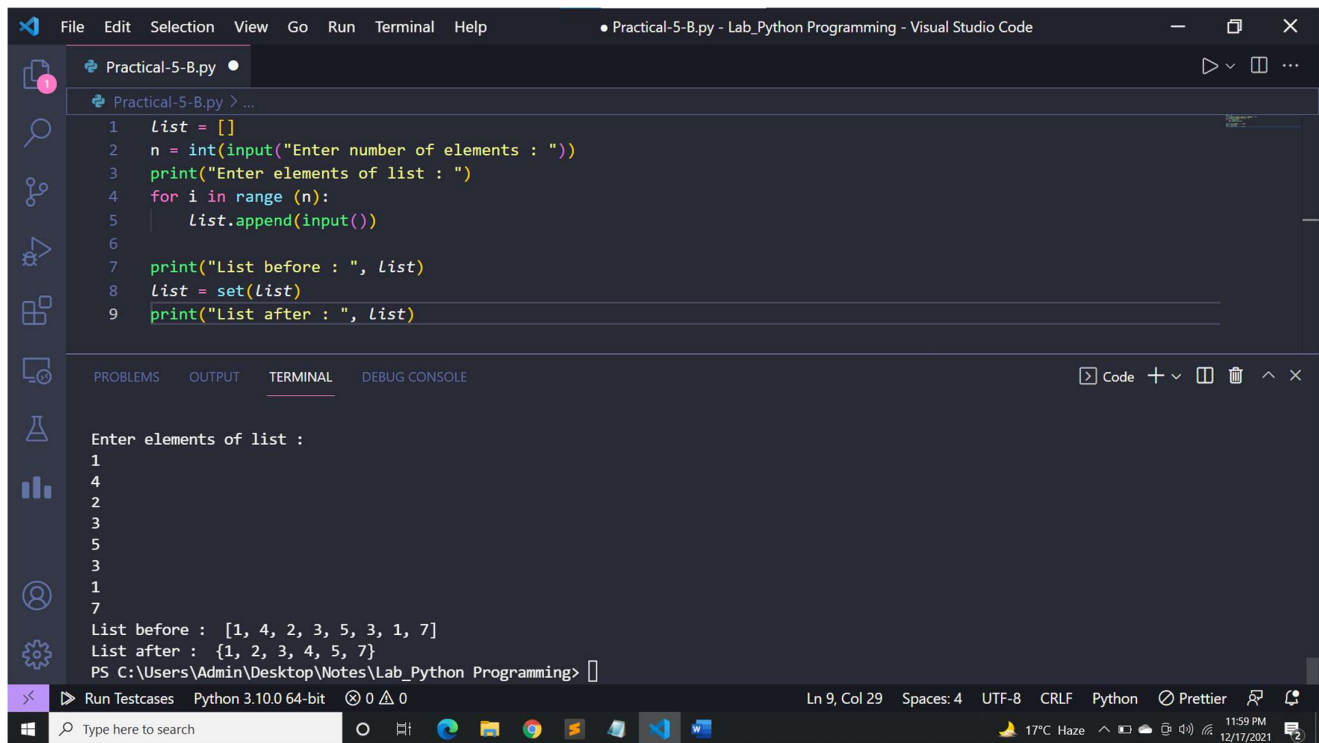
```
list = []
n = int(input("Enter number of elements : "))
print("Enter elements of list : ")
for i in range (n):
    list.append(input())

print("List before : ", list)
list = set(list)
print("List after : ", list)
```

- Output:

```
Enter elements of list :
1
4
2
3
5
3
1
7
List before : [1, 4, 2, 3, 5, 3, 1, 7]
List after : {1, 2, 3, 4, 5, 7}
```

- Screenshot:



The screenshot displays the Visual Studio Code interface with a Python file named 'Practical-5-B.py' open. The code in the editor is as follows:

```
1 list = []
2 n = int(input("Enter number of elements : "))
3 print("Enter elements of list : ")
4 for i in range(n):
5     list.append(input())
6
7 print("List before : ", list)
8 list = set(list)
9 print("List after : ", list)
```

The terminal window at the bottom shows the execution of the script. It prompts the user to 'Enter elements of list : ' and receives the following inputs: 1, 4, 2, 3, 5, 3, 1, 7. The output shows the list before conversion to a set and the list after conversion to a set.

```
Enter elements of list :
1
4
2
3
5
3
1
7
List before : [1, 4, 2, 3, 5, 3, 1, 7]
List after : {1, 2, 3, 4, 5, 7}
PS C:\Users\Admin\Desktop\Notes\Lab_Python Programming>
```

The status bar at the bottom indicates the file is at line 9, column 29, with 4 spaces, using UTF-8 encoding, CRLF line endings, and the Python language. The system tray shows the date and time as 11:59 PM on 12/17/2021.

Result: I have studied Lists and sets in Python and successfully performed practical-5.