Name: Badal Prabhakar Wanjari
Branch: Computer Technology
Section: B
Semester: 3rd
Roll No. 140
Reg. No. 20011045

Practical-8

Aim: Write program using sets

a. Write a Python program to clear a set
b. Write a Python program to find maximum and the minimum value in a set
c. Write a Python program to find the length of a set

a. Write a Python program to clear a set

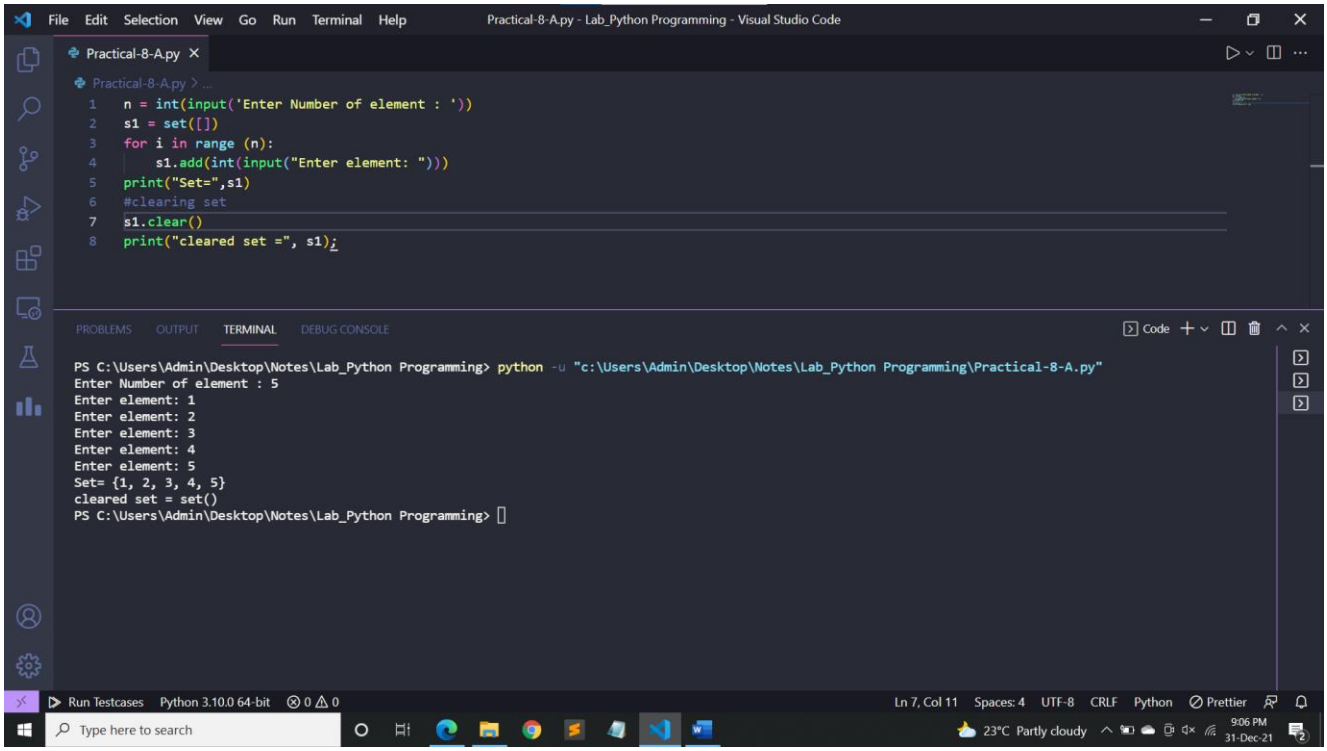
Program:

```
n = int(input('Enter Number of element : '))
s1 = set([])
for i in range (n):
    s1.add(int(input("Enter element: ")))
print("Set=",s1)
#clearing set
s1.clear()
print("cleared set =", s1);
```

Output:

```
Enter Number of element : 5
Enter element: 1
Enter element: 2
Enter element: 3
Enter element: 4
Enter element: 5
Set= {1, 2, 3, 4, 5}
cleared set = set()
```

Screenshot:



b. Write a Python program to find maximum and the minimum value in a set

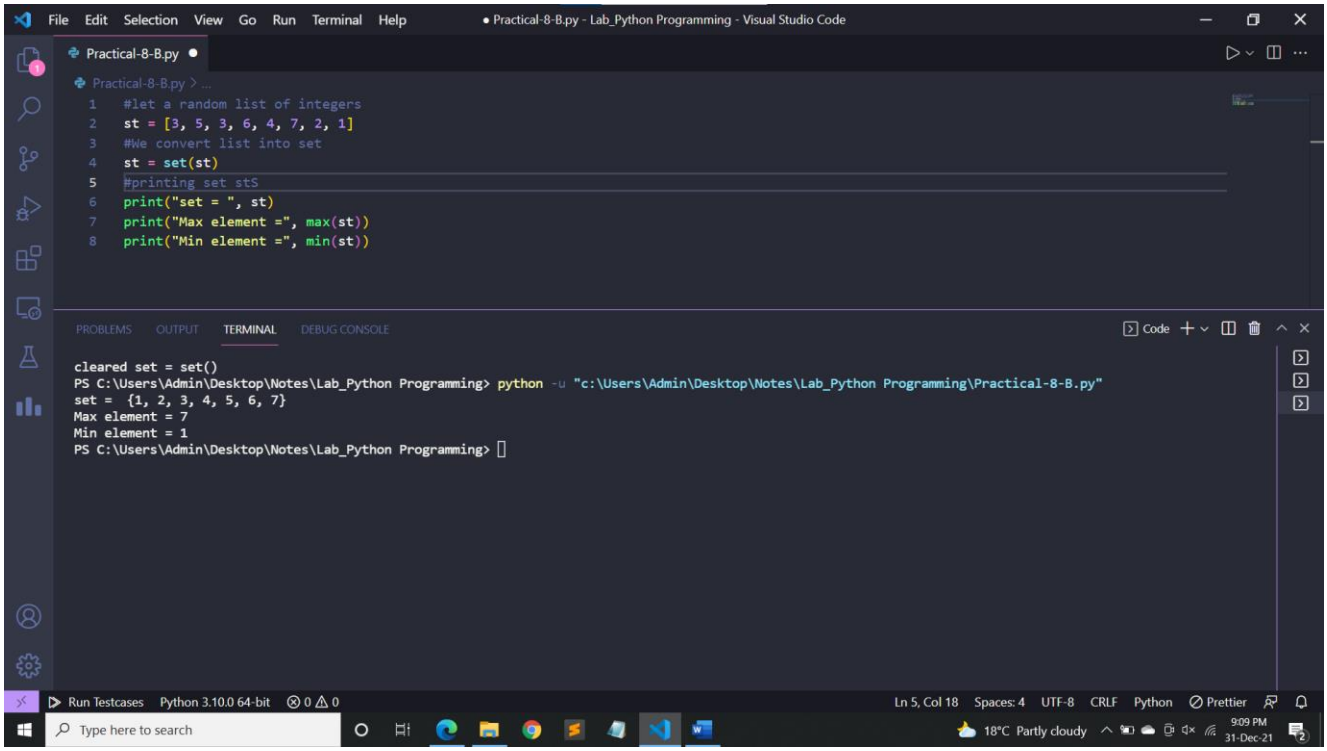
Program:

```
#let a random list of integers
st = [3, 5, 3, 6, 4, 7, 2, 1]
#We convert list into set
st = set(st)
#printing set st
print("set = ", st)
print("Max element =", max(st))
print("Min element =", min(st))
```

Output:

```
set =  {1, 2, 3, 4, 5, 6, 7}
Max element = 7
Min element = 1
```

Screenshot:



c. Write a Python program to find the length of a set

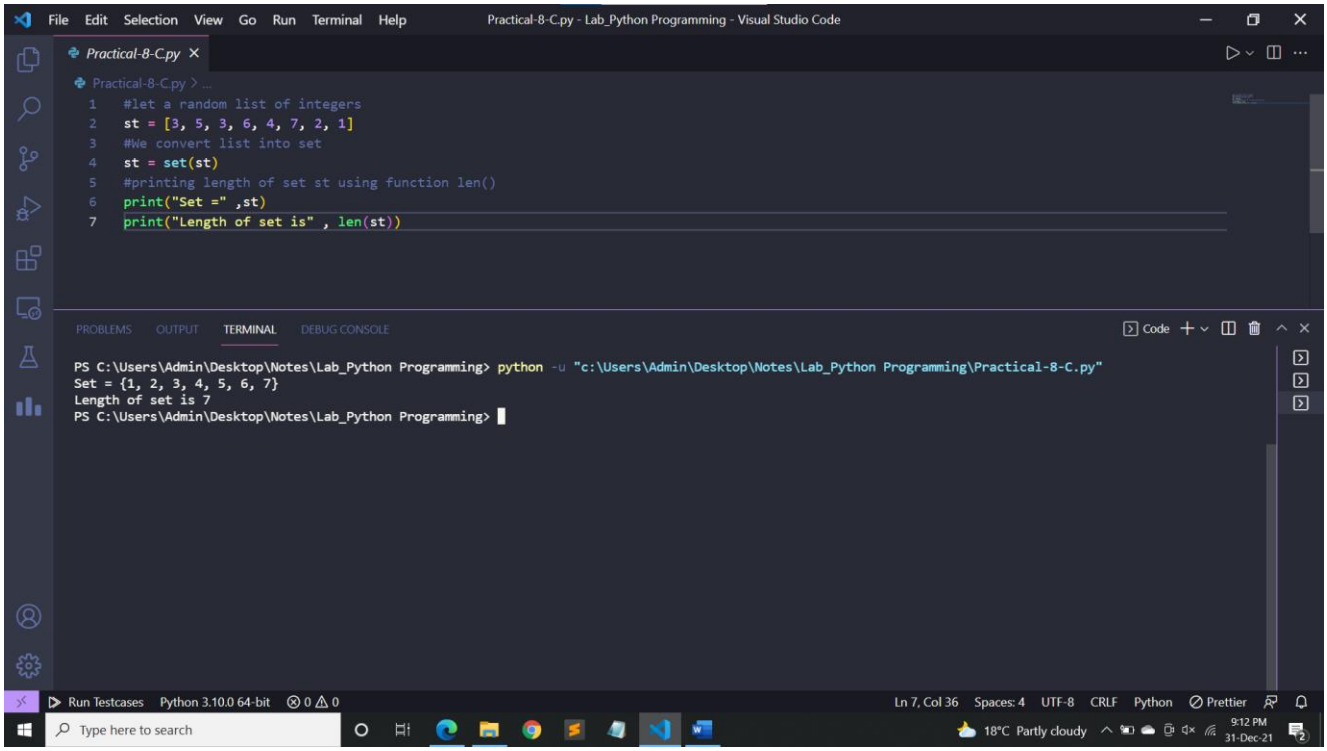
Program:

```
#let a random list of integers
st = [3, 5, 3, 6, 4, 7, 2, 1]
#We convert list into set
st = set(st)
#printing length of set st using function len()
print("Set =" ,st)
print("Length of set is" , len(st))
```

Output:

```
Set = {1, 2, 3, 4, 5, 6, 7}
Length of set is 7
```

Screenshot:



Result: I have studied Set in Python and successfully performed practical-8.