

## ASSIGNMENT-5

**DOMAIN:DATA SCIENCE WITH AI-ML**

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SALEM.**

- Using python program to find the remove duplicates from the list using a set.

***Example:1***

### **PROGRAM:**

```
list1=[1,2,4,6,3,6,8,4,7,4,1996,3,9,75]
```

```
result=[]  
for i in list1:  
    if i not in result:  
        result.append(i)
```

```
print(result)
```

### **OUTPUT:**

```
[1, 2, 4, 6, 3, 8, 7, 1996, 9, 75]
```

**“Another one example of an output:”**

```
list1=[1,2,4,6,3,6,8,4,7,4,2002,7,9,56,10,0.85,95]
```

### **Output:**

```
[1, 2, 4, 6, 3, 8, 7, 2002, 9, 56, 10, 0.85, 95]
```

```
list1=[1,2,4,6,3,6,8,4,7,4,8995,7,9,56,10,0.25,25/2,100,9*2]
```

### Output:

[1, 2, 4, 6, 3, 8, 7, 8995, 9, 56, 10, 0.25, 12.5, 100, 18]

### *Example:2*

### PROGRAM:

```
def remove_duplicates(input_list):  
    return list(set(input_list))
```

```
# Test the program
```

```
input_list = [1, 2, 3, 3, 4, 5, 5]
```

```
unique_list = remove_duplicates(input_list)
```

```
print("Original list:", input_list)
```

```
print("List with duplicates removed:", unique_list)
```

### OUTPUT:

Original list: [1, 2, 3, 3, 4, 5, 5]

List with duplicates removed: [1, 2, 3, 4, 5]

### “Another one example of an output:”

```
# Test the program
```

```
input_list = [1, 2, 3, 4, 5, 7, 7, 8, 8, 100, 100]
```

### Output:

Original list: [1, 2, 3, 4, 5, 7, 7, 8, 8, 100, 100]

List with duplicates removed: [1, 2, 3, 4, 5, 100, 7, 8]

```
# Test the program
```

```
input_list = [1, 1, 2, 3, 4, 4, 5, 7, 8, 7*2, 3*2, 0.2075]
```

## Output:

Original list: [1, 1, 2, 3, 4, 4, 5, 7, 8, 14, 6, 0.2075]

List with duplicates removed: [0.2075, 1, 2, 3, 4, 5, 6, 7, 8, 14]