# ASSIGNMENT-5

# DOMAIN:DATA SCIENCE WITH AI-ML


## S.MALATHY, B.E-CSE

### ANNAPOORANA ENGINEERING COLLEGE, SALEM


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

## Example:1

## PROGRAM:

```
list1=[1,2,4,6,3,6,8,4,7,4,8995,7,9,56]

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

print(result)
```

## OUTPUT:

[1, 2, 4, 6, 3, 8, 7, 8995, 9, 56]

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

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

**output:**

[1, 2, 4, 6, 3, 8, 7, 8995, 9, 56, 10, 0.25, 25]

```
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, 2, 3, 4, 4, 5]

unique_list = remove_duplicates(input_list)

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

# OUTPUT:

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

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

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

```
# Test the program
input_list = [1, 2, 2, 3, 4, 4, 5, 7, 8, 8, 100]
```

## output:

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

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

```
# Test the program
input_list = [1, 2, 2, 3, 4, 4, 5, 7, 8, 8*2, 4*2, 0.2555]
```

## output:

Original list: [1, 2, 2, 3, 4, 4, 5, 7, 8, 16, 8, 0.2555]

List with duplicates removed: [0.2555, 1, 2, 3, 4, 5, 7, 8, 16]