

## JAISHMA\_CODING\_CHALLENGE\_5 – 23/06/2020

### PYTHON PROGRAM

#### TASK 1:

Given a list iterate it and count the occurrence of each element and create a dictionary to show the count of each element

Expected Output:

Original list [11, 45, 8, 11, 23, 45, 23, 45, 89]

Printing count of each item {11: 2, 45: 3, 8: 1, 23: 2, 89: 1}

#### Solution:

```
sampleList = [11, 45, 8, 11, 23, 45, 23, 45, 89]
```

```
print("Original list ", sampleList)
```

```
countDict = dict()
```

```
for item in sampleList:
```

```
    if(item in countDict):
```

```
        countDict[item] += 1
```

```
    else:
```

```
        countDict[item] = 1
```

```
print("Printing count of each item ",countDict)
```

```
*****
```

#### TASK 2:

Given a following two sets find the intersection and remove those elements from the first set

Expected Output:

First Set {65, 42, 78, 83, 23, 57, 29}

Second Set {67, 73, 43, 48, 83, 57, 29}

Intersection is {57, 83, 29}

First Set after removing common element {65, 42, 78, 23}

### **Solution:**

```
firstSet = {23, 42, 65, 57, 78, 83, 29}
```

```
secondSet = {57, 83, 29, 67, 73, 43, 48}
```

```
print("First Set ", firstSet)
```

```
print("Second Set ", secondSet)
```

```
intersection = firstSet.intersection(secondSet)
```

```
print("Intersection is ", intersection)
```

```
for item in intersection:
```

```
    firstSet.remove(item)
```

```
print("First Set after removing common element ", firstSet)
```

```
*****
```

### **TASK 3:**

Given a dictionary get all values from the dictionary and add it in a list but don't add duplicates

Given:

```
speed = {'jan':47, 'feb':52, 'march':47, 'April':44, 'May':52, 'June':53, 'july':54
```

### **Solution:**

```
speed = {'jan':47, 'feb':52, 'march':47, 'April':44, 'May':52, 'June':53,  
        'july':54, 'Aug':44, 'Sept':54}
```

```
print("Dictionary's values - ", speed.values())
```

```
speedList = list()
for item in speed.values():
    if item not in speedList:
        speedList.append(item)
print("unique list", speedList)
*****
```