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	ASSIGNMENT - 4

Task - 1 Create two list and join those two list.

# **Coding:**

```
list1 = ["N", "A", "A", "N"]
list2 = [9, 7, 8, 9, 1, 2, 3, 9, 0, 0]
list1.extend(list2)
print(list1)
```

#### Task - 2

With if statement find the even numbers.

### **Coding:**

```
list1 = [1, 2, 3, 4]
list2 = [9, 7, 8, 9, 1, 2, 3, 9, 6, 0]
list3=list1.extend(list2)
for n in list1:
    if (n%2==0):
        print(n, end=" ")
```

```
P IDLE Shell 3.11.3
                                                                                                                                                                              \underline{\text{File}} \quad \underline{\text{E}} \text{dit} \quad \text{She}\underline{\text{II}} \quad \underline{\text{D}} \text{ebug} \quad \underline{\text{O}} \text{ptions} \quad \underline{\text{W}} \text{indow} \quad \underline{\text{H}} \text{elp}
     Python 3.11.3 (tags/v3.11.3:f3909b8, Apr 4 2023, 23:49:59) [MSC v.1934 64 bit (AMD64)] on win32
     Type "help", "copyright", "credits" or "license()" for more information.
      = RESTART: D:\B.Tech\Naan Mudhalvan\NM PHASE - 04\Team 13\M1 - KABILAN S\Assignment 4\A4 - T2 - KABILAN S.py
      2 4 8 2 6 0
                                                                                                                                                                               Ln: 6 Col: 0
```

```
Task – 3
```

Create a Dictionary with 3 keys and 2 values for each key.

# **Coding:**

```
k = {'K':[99, 89],'L':[31, 12],'M':[39, 9]}
print(k)
```

```
| DLE Shell 2.11.3 | DLE Shell 2
```

```
Task – 4
```

Create a function with if statement which is used to find the odd numbers.

#### Coding:

```
def odd_elements(dictionary): return {key: [x for x in value if x % 2 != 0] for key, value in dictionary.items()} dictionary = {'K':[99, 89],'L':[31, 12],'M':[39, 9]} filter_dict = odd_elements(dictionary) print(filter_dict)
```

```
IDLE Shell 3.11.3
                                                                                <u>File Edit Shell Debug Options Window Help</u>
    Python 3.11.3 (tags/v3.11.3:f3909b8, Apr 4 2023, 23:49:59) [MSC v.1934 64 bit (
    AMD64)] on win32
    Type "help", "copyright", "credits" or "license()" for more information.
>>>
    = RESTART: D:\B.Tech\Naan Mudhalvan\NM PHASE - 04\Team 13\M1 - KABILAN S\Assignm
    ent 4\A4 - T4 - KABILAN S.py
    {'K': [99, 89], 'L': [31], 'M': [39, 9]}
>>>
```

Write a Python function to sum all the numbers in a list.

Task – 5

Sample List: (8,2,3,0,7) Expected Output: 20

# **Coding:**

list = [8,2,3,0,7] print(sum(list))

```
PiDLE Shell 3.11.3
                                                                                                                                                                                                                           X
\underline{\text{File}} \quad \underline{\text{E}} \text{dit} \quad \text{She}\underline{\text{II}} \quad \underline{\text{D}} \text{ebug} \quad \underline{\text{O}} \text{ptions} \quad \underline{\text{W}} \text{indow} \quad \underline{\text{H}} \text{elp}
        Python 3.11.3 (tags/v3.11.3:f3909b8, Apr 4 2023, 23:49:59) [MSC v.1934 64 bit (AMD64)] on win32 Type "help", "copyright", "credits" or "license()" for more information.
        = RESTART: D:\B.Tech\Naan Mudhalvan\NM PHASE - 04\Team 13\M1 - KABILAN S\Assignment 4\A4 - T5 - KABILAN S.py 20
>>>
                                                                                                                                                                                                                              Ln: 6 Col: 0
```