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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)
```

Output:

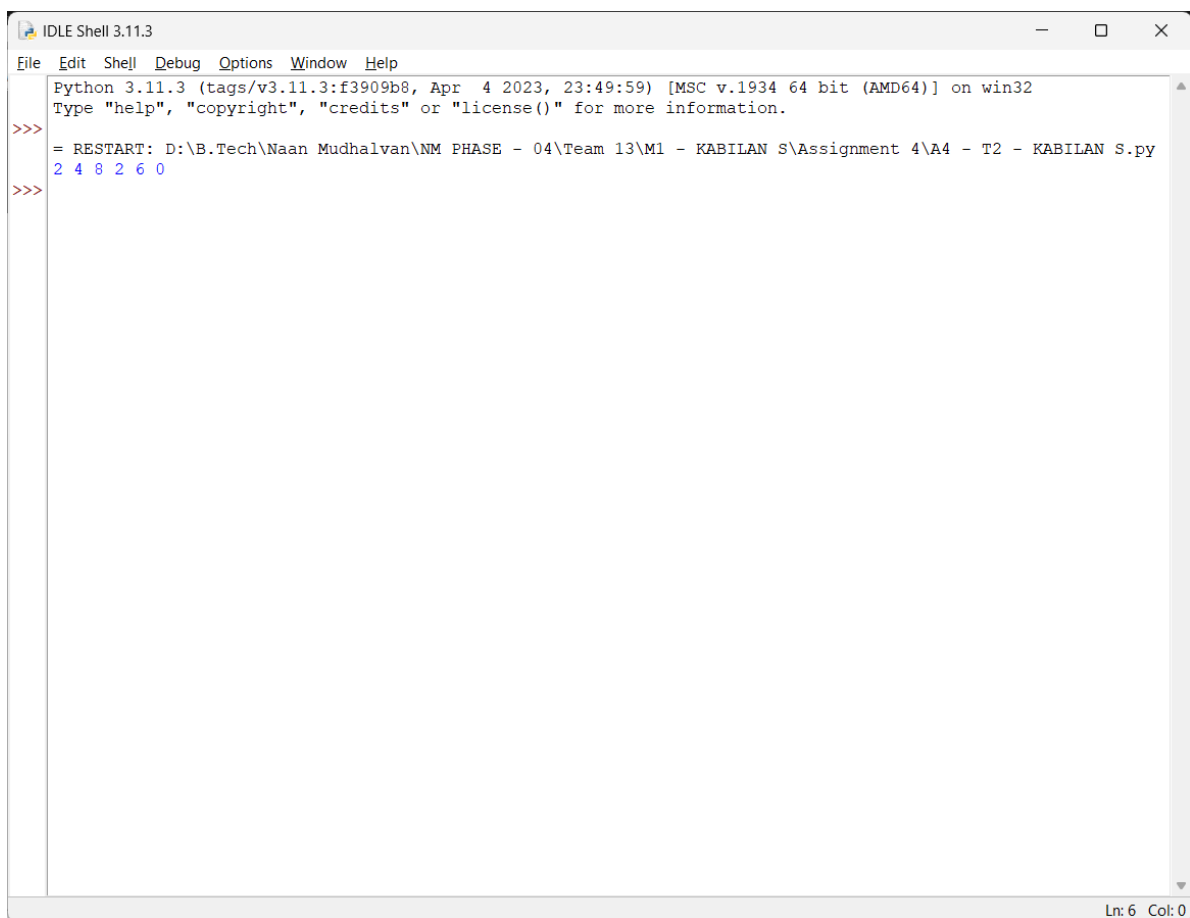IDLE Shell 3.11.3   —   □   ×

File Edit Shell Debug Options Window Help

```
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 - T1 - KABILAN S.py
['N', 'A', 'A', 'N', 9, 7, 8, 9, 1, 2, 3, 9, 0, 0]
>>>
```

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 list(n%2==0)
      print(n, end=" ")
```

Output:

```
IDLE Shell 3.11.3                                                    —    □    ×
File  Edit  Shell  Debug  Options  Window  Help
    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
```
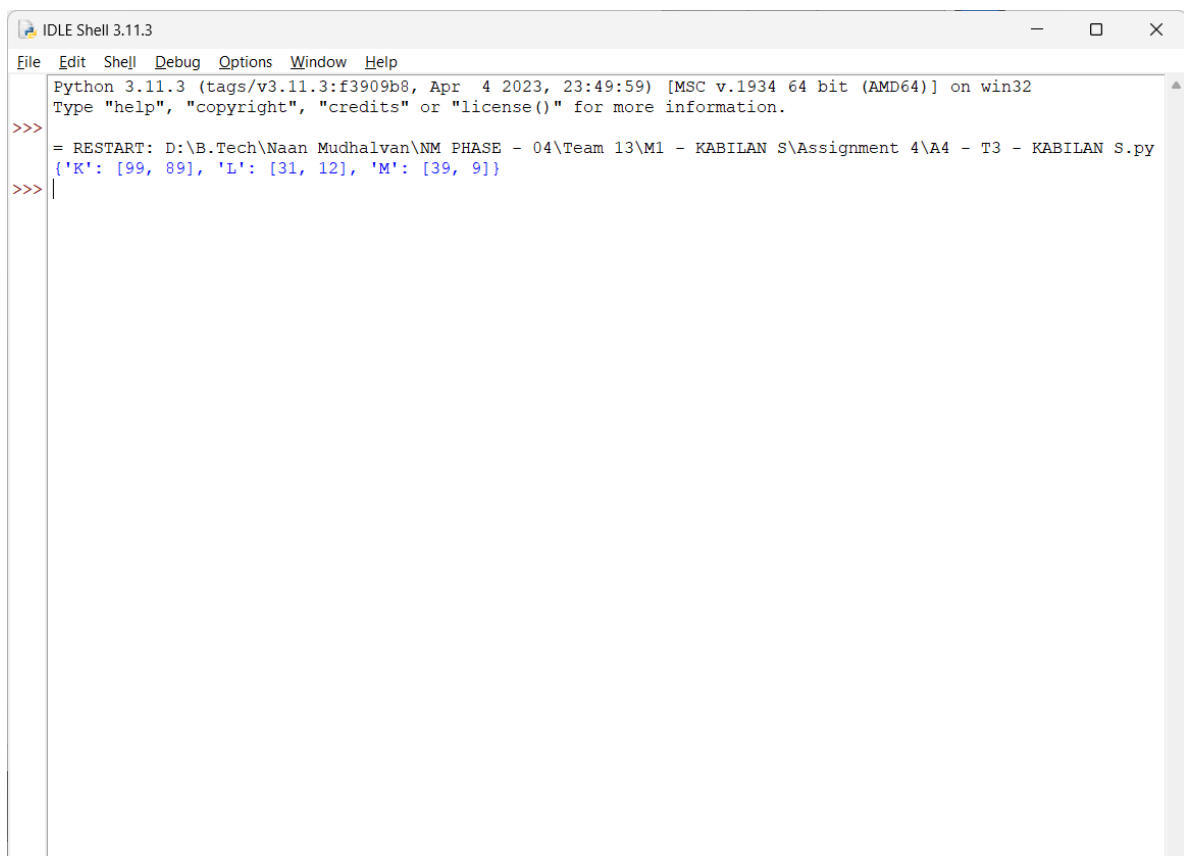
Task – 3	Create a Dictionary with 3 keys and 2 values for each key.

Coding:

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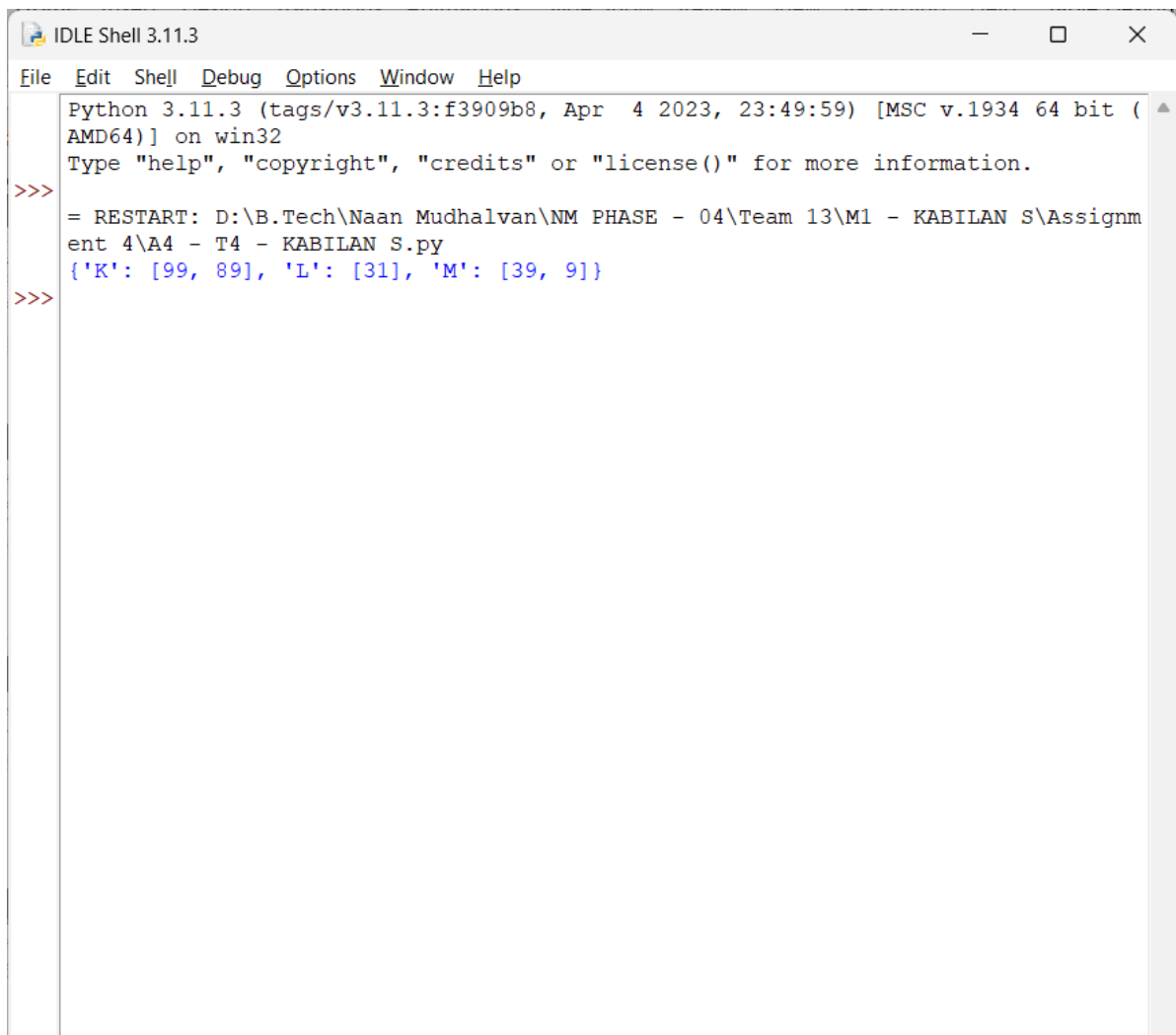
Output:

IDLE Shell 3.11.3   —   □   ✕

File Edit Shell Debug Options Window Help

```
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 - T3 - KABILAN S.py
{'K': [99, 89], 'L': [31, 12], 'M': [39, 9]}
>>>
```

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)
```
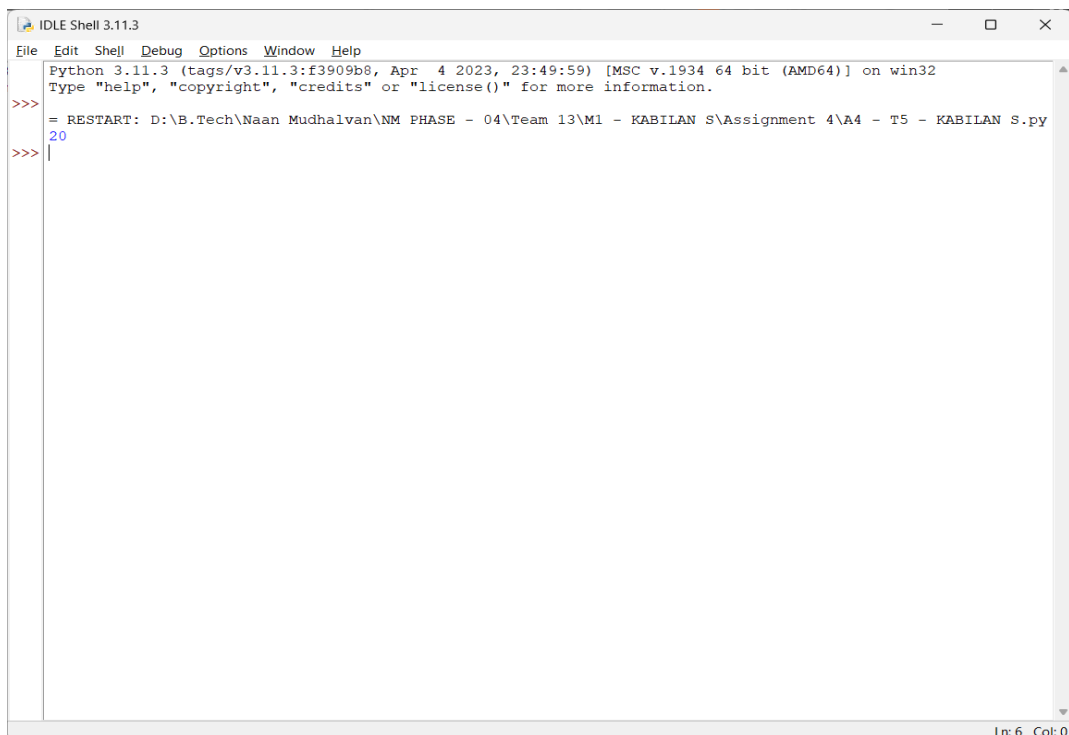
Output:


```
IDLE Shell 3.11.3                                          —    □    ✕
File  Edit  Shell  Debug  Options  Window  Help
    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]}
>>>
```

Task – 5	Write a Python function to sum all the numbers in a list.Sample List : (8,2,3,0,7) Expected Output : 20

Coding:

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

Output: