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	ASSIGNMENT - 4

Task - 1	Create two list and join those two list.
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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.
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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=" ")
```

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

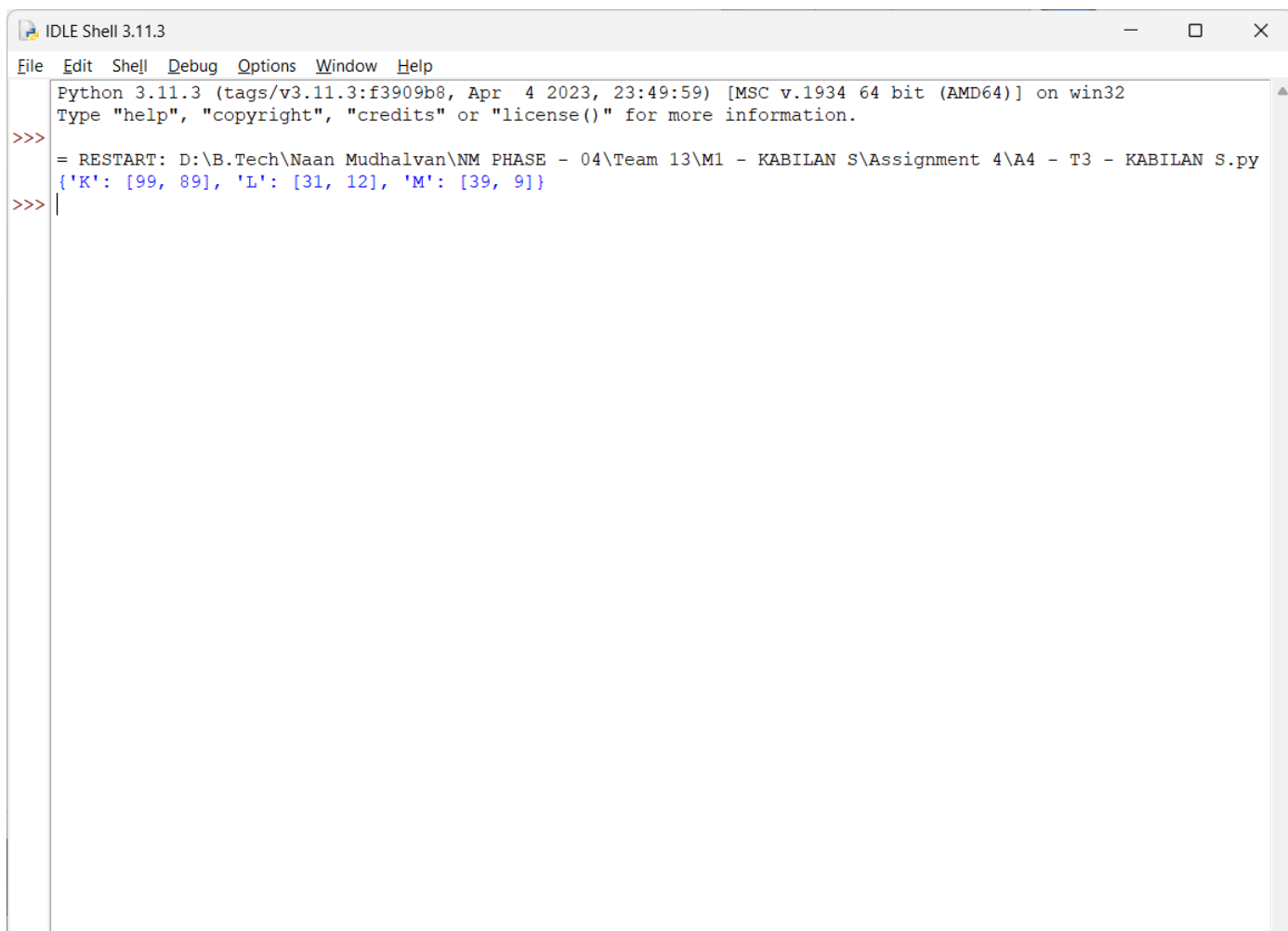
Task – 3

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:

The image shows a screenshot of an IDLE Shell 3.11.3 window. The window has a title bar with the text "IDLE Shell 3.11.3" and standard window controls (minimize, maximize, close). Below the title bar is a menu bar with the following items: File, Edit, Shell, Debug, Options, Window, and Help. The main text area contains the following text:

```
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]}  
>>> |
```

The output shows the dictionary created in the previous block. The prompt character is a vertical bar (|) on the last line.

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\Assignment 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:A screenshot of the IDLE Shell 3.11.3 window. The title bar reads "IDLE Shell 3.11.3". The menu bar includes "File", "Edit", "Shell", "Debug", "Options", "Window", and "Help". The main text area shows the following content: "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.", a red prompt ">>>" followed by the command "= RESTART: D:\B.Tech\Naan Mudhalvan\NM PHASE - 04\Team 13\M1 - KABILAN S\Assignment 4\A4 - T5 - KABILAN S.py", and another red prompt ">>>" followed by the output "20". The status bar at the bottom right indicates "Ln: 6 Col: 0".

```
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 - T5 - KABILAN S.py
20
>>>
```