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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:

```

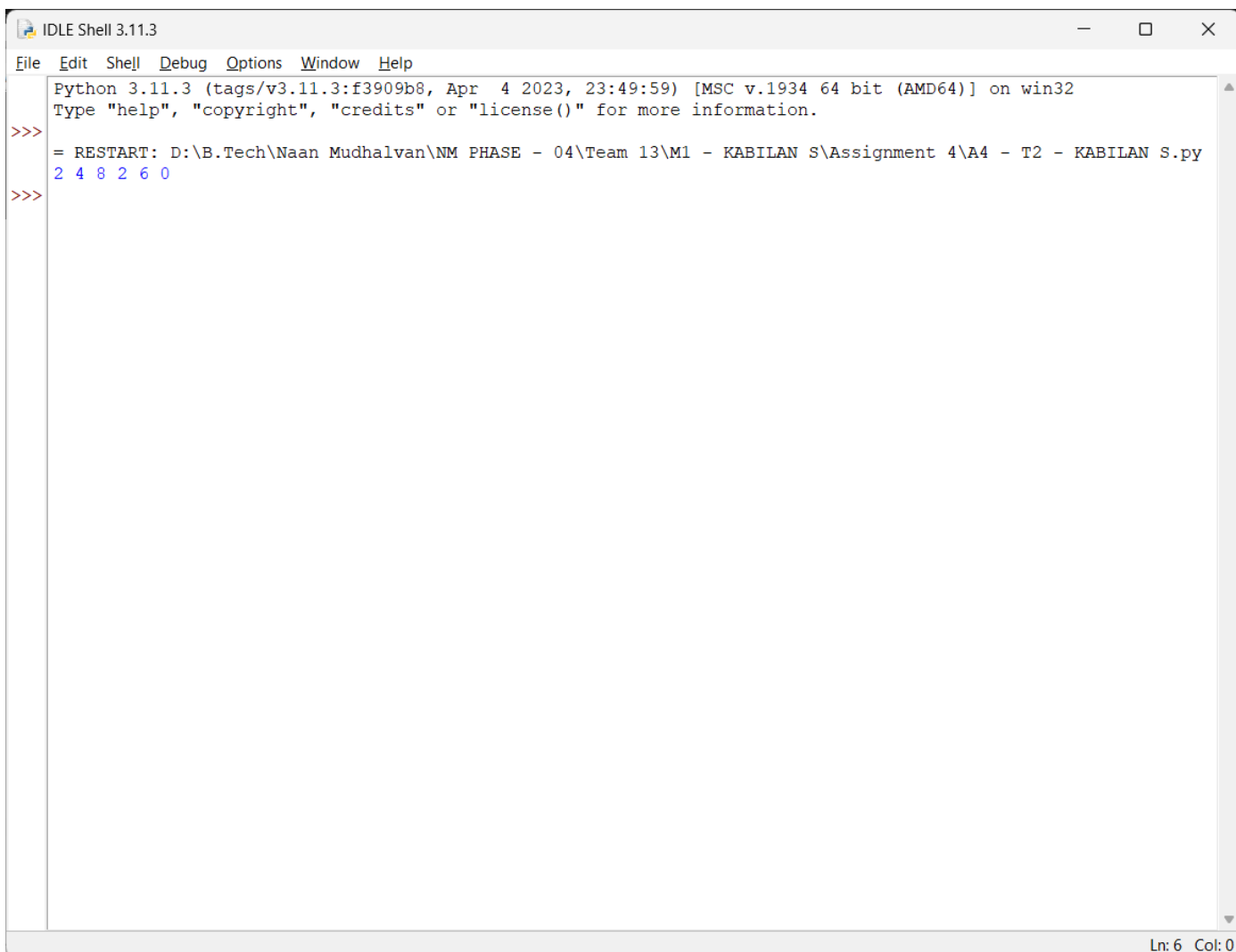
IDLE Shell 3.11.3
File Edit Shell Debug Options Window Help
Python 3.11.3 (tags/v3.11.3:f3909b8, Apr  4 2023, 23:49:59) [MSC v.1934 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
= RESTART: D:\B.Tech\Naan Mudhalvan\NM PHASE - 04\Team 13\M1 - KABILAN 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=" ")
```

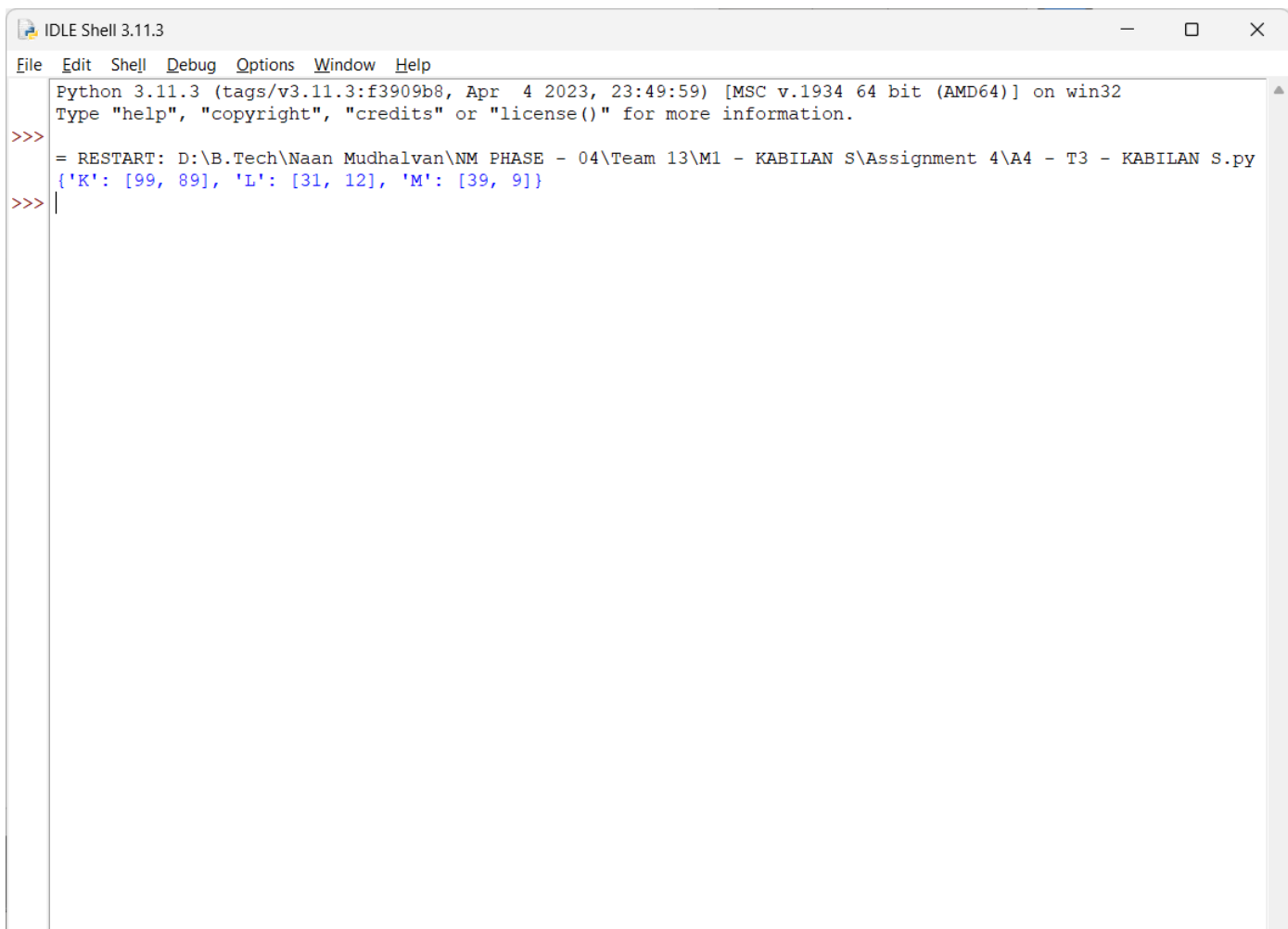
Output:

```
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:A screenshot of an IDLE Shell 3.11.3 window. The window has a menu bar with 'File', 'Edit', 'Shell', 'Debug', 'Options', 'Window', and 'Help'. The main text area shows the output of a Python script. It starts with the Python version and build information: 'Python 3.11.3 (tags/v3.11.3:f3909b8, Apr 4 2023, 23:49:59) [MSC v.1934 64 bit (AMD64)] on win32'. Below this, it says 'Type "help", "copyright", "credits" or "license()" for more information.' Then, there are three lines of input from the user, each preceded by '>>>'. The first line is '= RESTART: D:\B.Tech\Naan Mudhalvan\NM PHASE - 04\Team 13\M1 - KABILAN S\Assignment 4\A4 - T3 - KABILAN S.py'. The second line is the dictionary definition: {'K': [99, 89], 'L': [31, 12], 'M': [39, 9]}. The third line is an empty line, indicated by a vertical bar after the '>>>' prompt.

```
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\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 window title is "IDLE Shell 3.11.3". The menu bar includes "File", "Edit", "Shell", "Debug", "Options", "Window", and "Help". The shell area shows 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.", and a prompt ">>>". Below the prompt, the text "= RESTART: D:\B.Tech\Naan Mudhalvan\NM PHASE - 04\Team 13\M1 - KABILAN S\Assignment 4\A4 - T5 - KABILAN S.py" is displayed. The output "20" is shown in blue text. The status bar at the bottom right indicates "Ln: 6 Col: 0".

```
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
>>> |
```