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	<b>ASSIGNMENT - 4</b>

<b>Task - 1</b>	<b>Create two list and join those two list.</b>
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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:

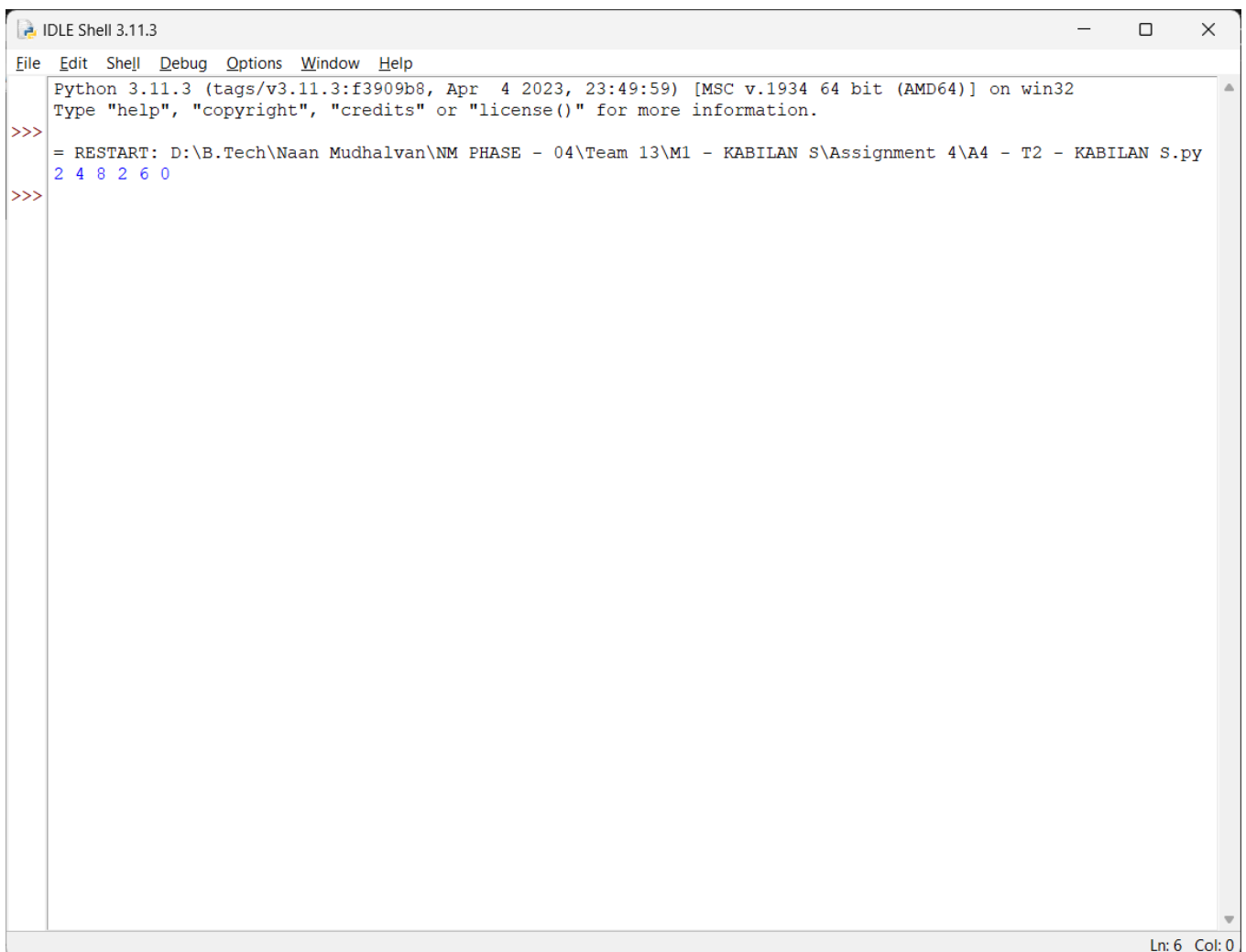
```

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.****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=" ")
```

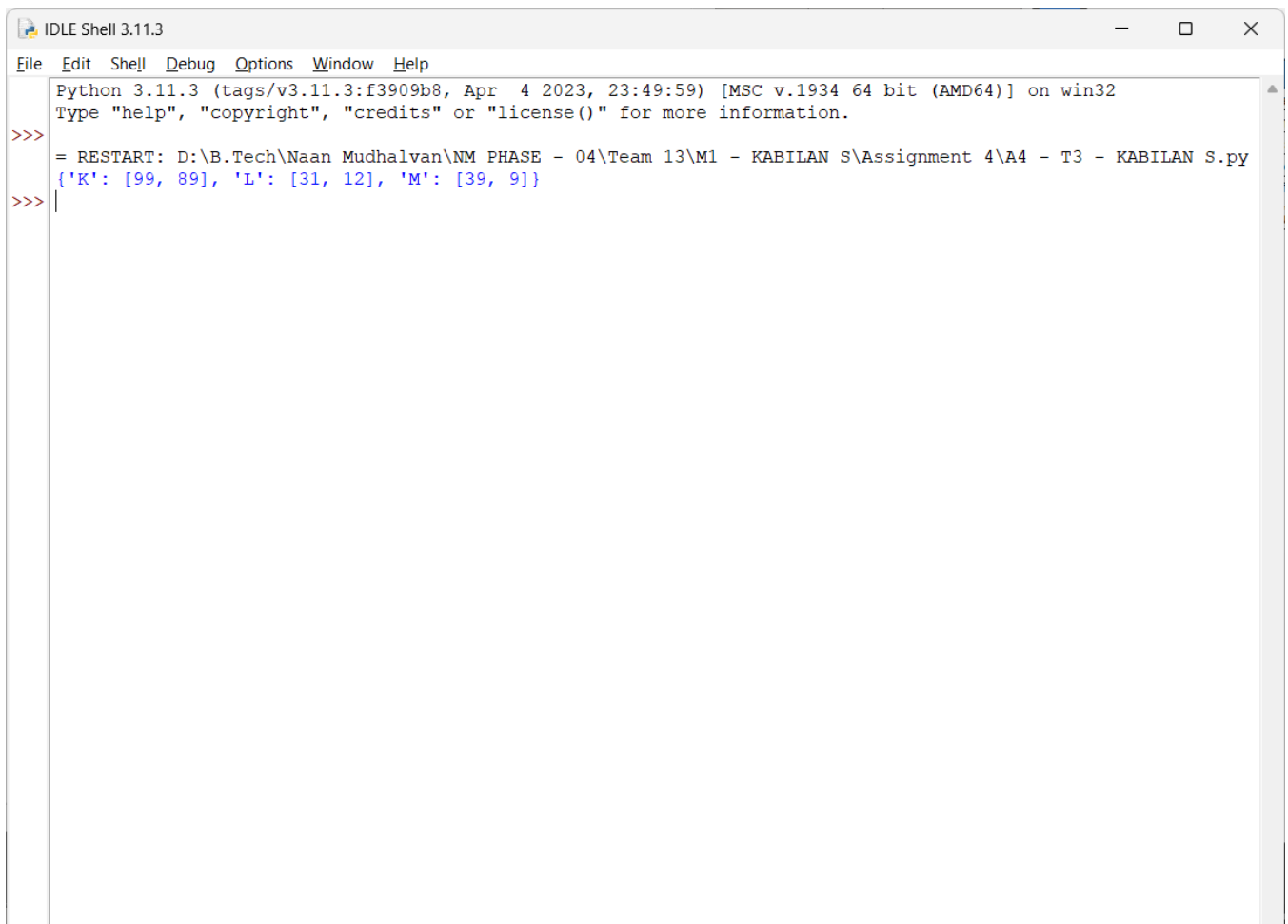
**Output:**

```
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 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 output of the script is displayed: "= RESTART: D:\B.Tech\Naan Mudhalvan\NM PHASE - 04\Team 13\M1 - KABILAN S\Assignment 4\A4 - T3 - KABILAN S.py", followed by the dictionary representation: "{'K': [99, 89], 'L': [31, 12], 'M': [39, 9]}" and another 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**

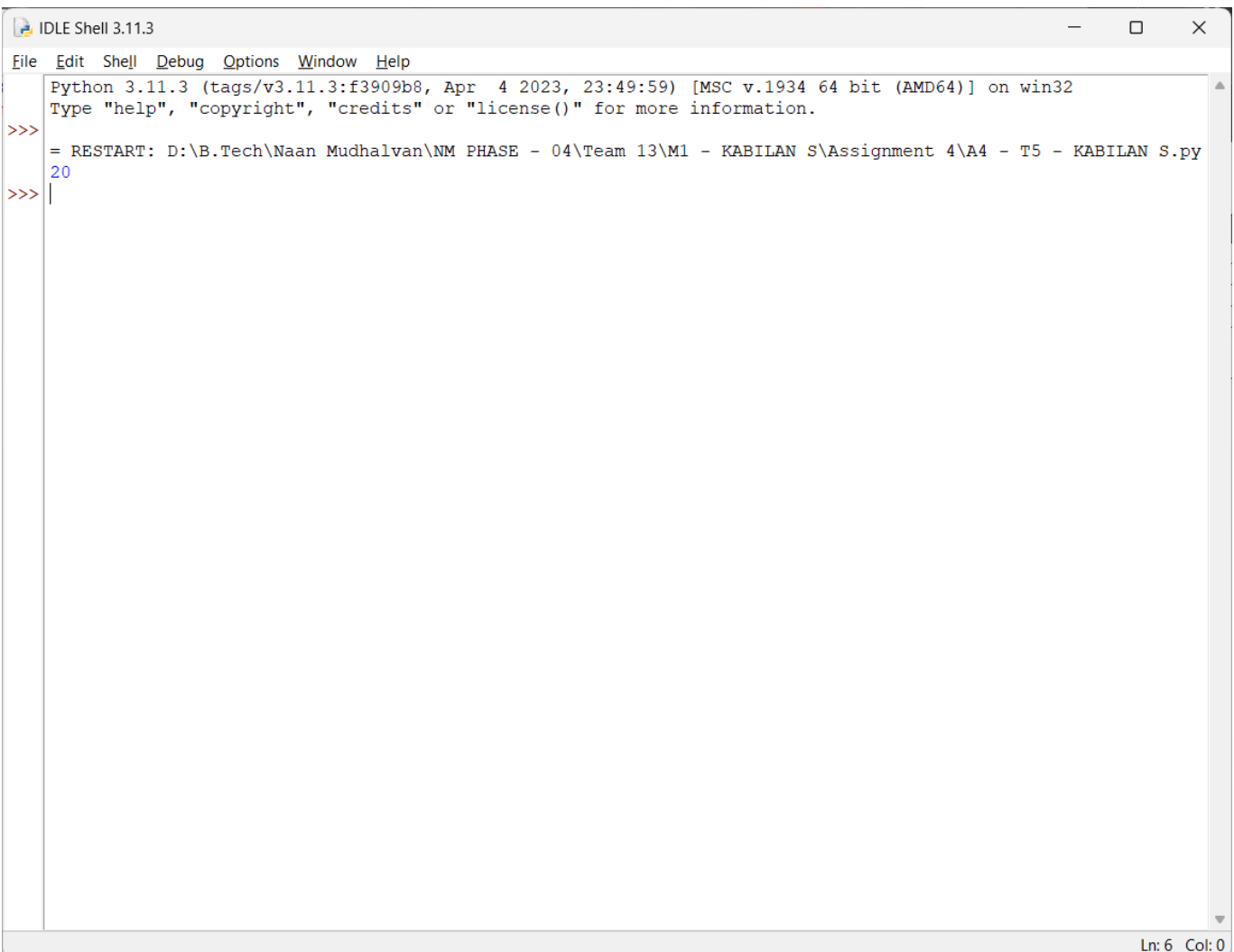
**Write a Python function to sum all the numbers in a list.**

**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 has a menu bar with 'File', 'Edit', 'Shell', 'Debug', 'Options', 'Window', and 'Help'. The main text 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' followed by 'Type "help", "copyright", "credits" or "license()" for more information.' Below this, there is a prompt '>>>' followed by a line of text: '= RESTART: D:\B.Tech\Naan Mudhalvan\NM PHASE - 04\Team 13\M1 - KABILAN S\Assignment 4\A4 - T5 - KABILAN S.py'. The next line shows the output '20' in blue text. The prompt '>>>' is followed by a vertical bar '|'. The status bar at the bottom right shows 'Ln: 6 Col: 0'.