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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 = [1, 2, 3]
list1.extend(list2)
print(list1)
```

### Output:

```

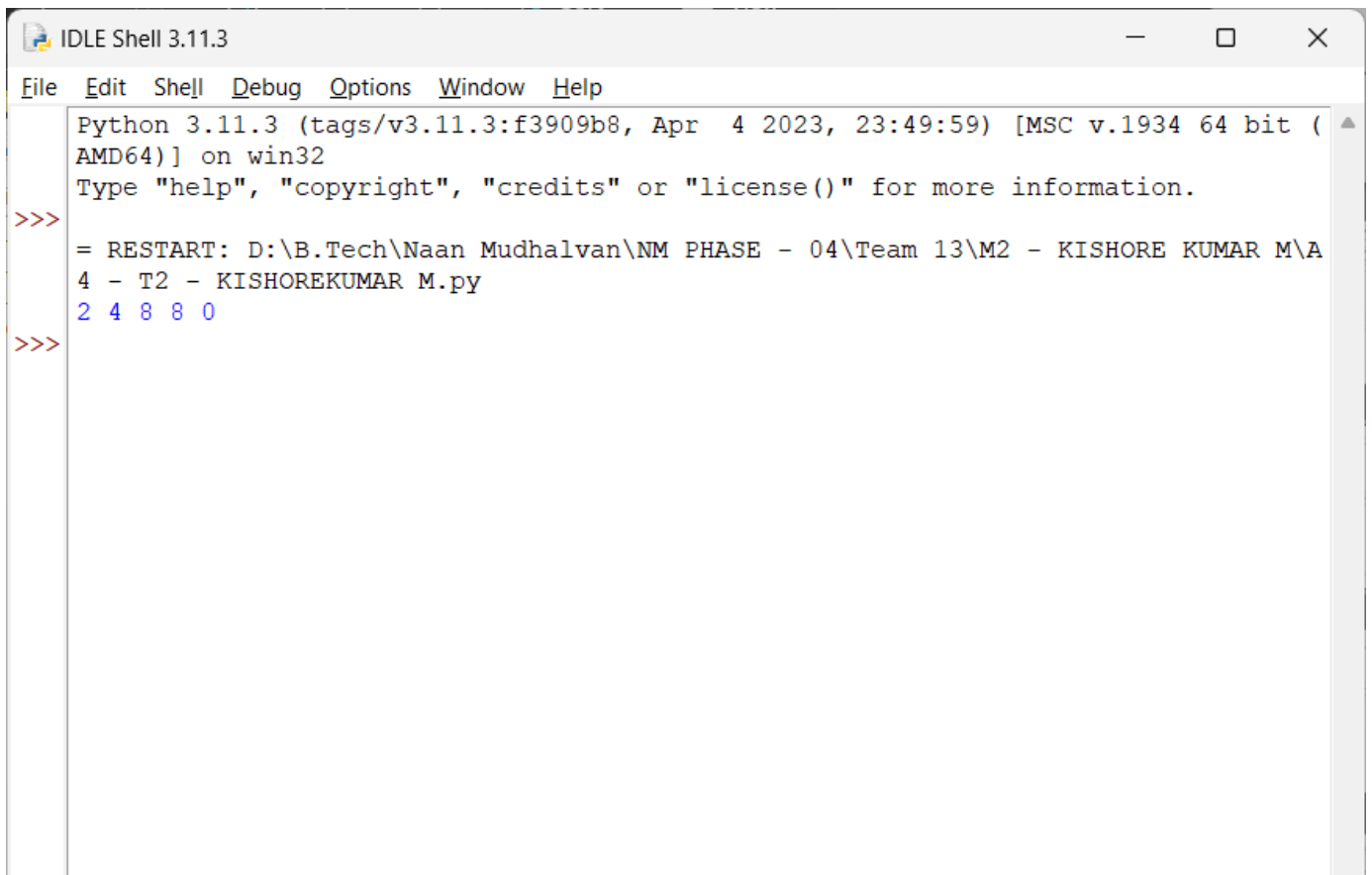
IDLE Shell 3.11.3
File Edit Shell Debug Options Window Help
Python 3.11.3 (tags/v3.11.3:f3909b8, Apr 4 2023, 23:49:59) [MSC v.1934 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
= RESTART: D:\B.Tech\Naan Mudhalvan\NM PHASE - 04\Team 13\M2 - KISHORE KUMAR M\A
4 - T1 - KISHOREKUMAR M.py
['N', 'A', 'A', 'N', 1, 2, 3]
>>>

```

<b>Task - 2</b>	<b>With if statement find the even numbers.</b>
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**Coding:**

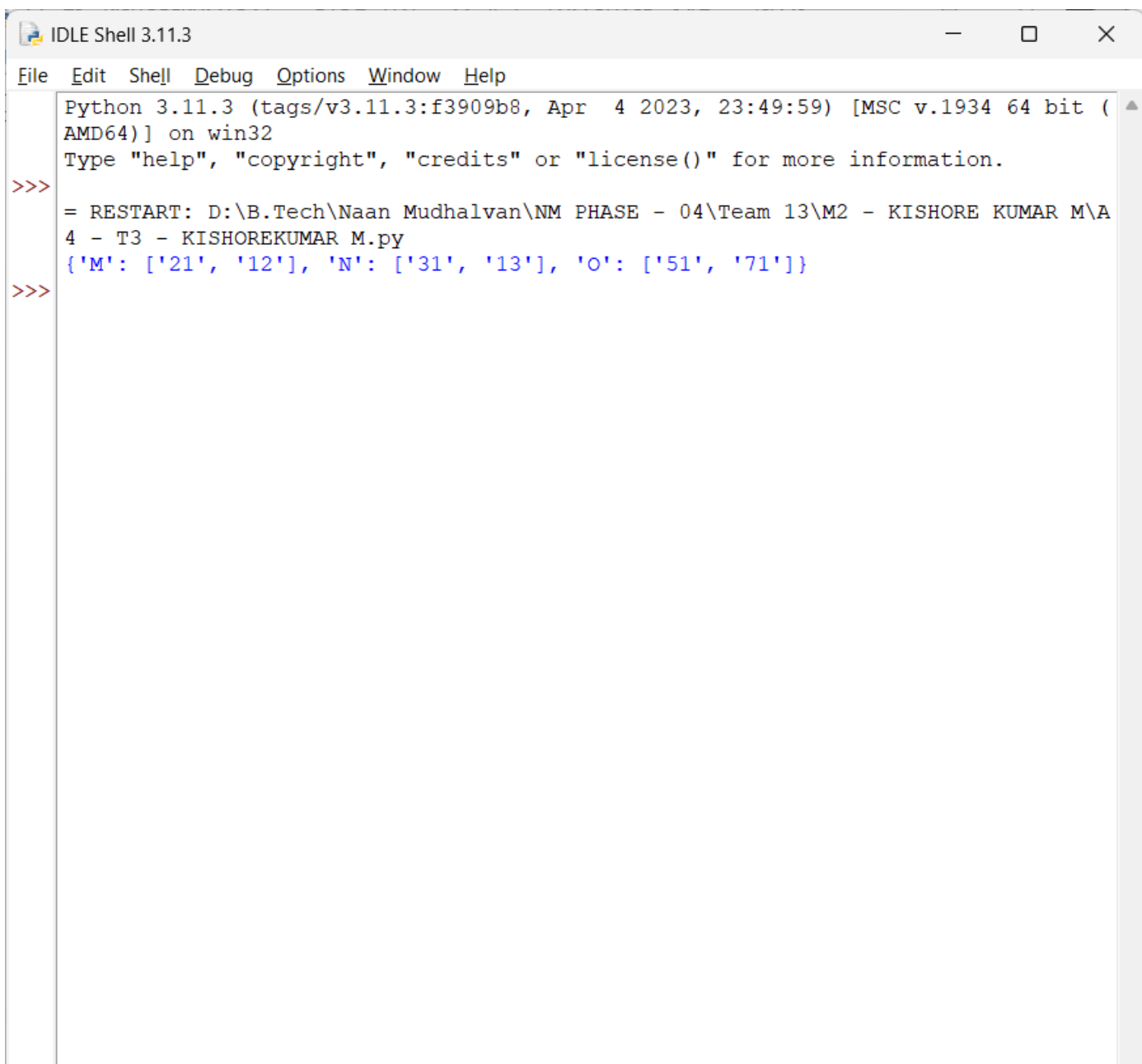
```
list1 = [1, 2, 3, 4]
list2 = [5, 8, 8, 0]
list3=list1.extend(list2)
for n in list1:
    if (n%2==0):
        print(n, end=" ")
```

**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\M2 - KISHORE KUMAR M\A
4 - T2 - KISHOREKUMAR M.py
2 4 8 8 0
>>>
```

**Task – 3****Create a Dictionary with 3 keys and 2 values for each key.****Coding:**

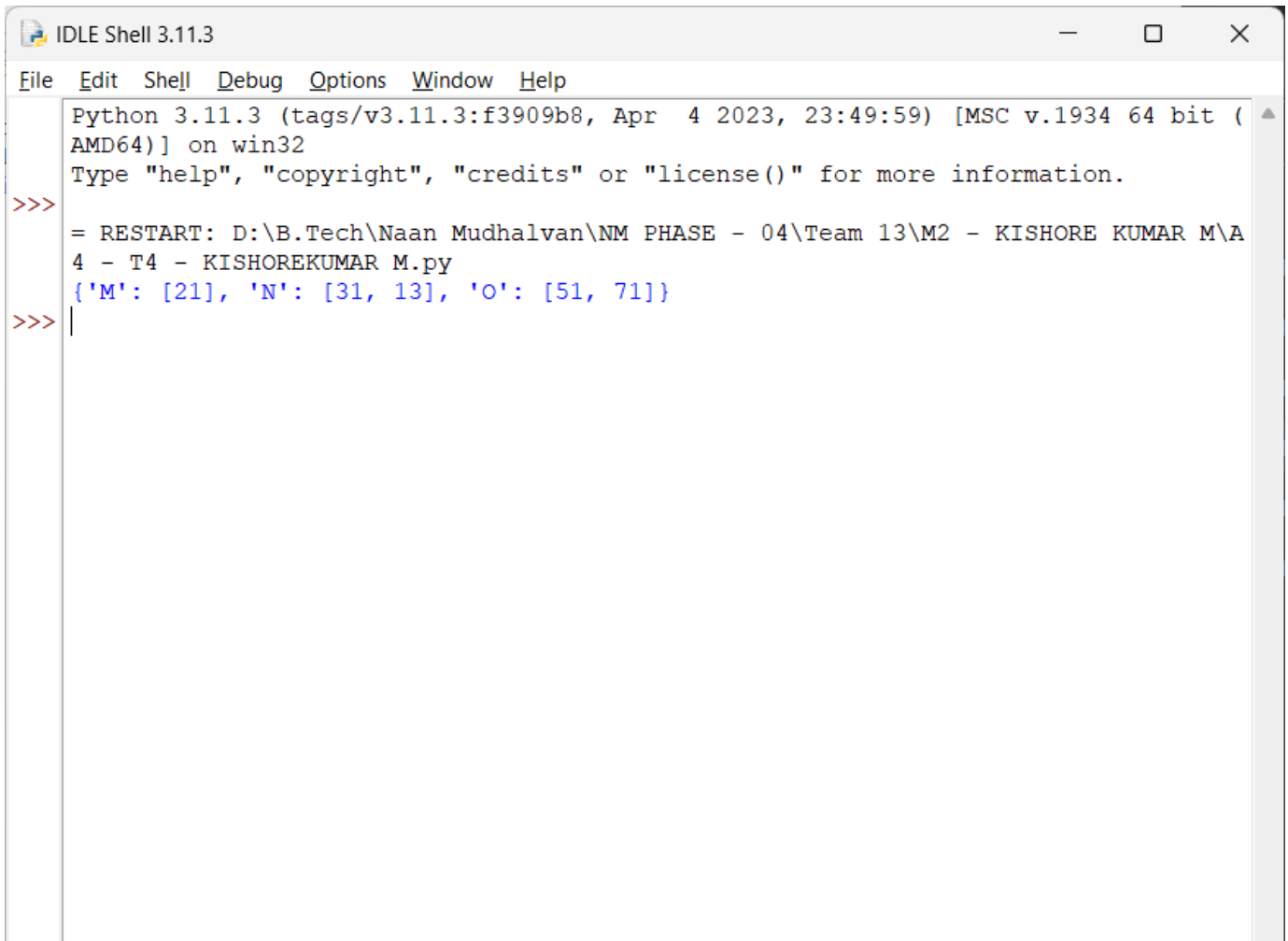
```
dict = {'M':['21','12'],'N':['31','13'],'O':['51','71']}
print(dict)
```

**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\M2 - KISHORE KUMAR M\A
4 - T3 - KISHOREKUMAR M.py
{'M': ['21', '12'], 'N': ['31', '13'], 'O': ['51', '71']}
>>>
```

**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 = {'M':[21,12],'N':[31,13],'O':[51,71]}  
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\M2 - KISHORE KUMAR M\A  
4 - T4 - KISHOREKUMAR M.py  
{'M': [21], 'N': [31, 13], 'O': [51, 71]}  
>>> |
```

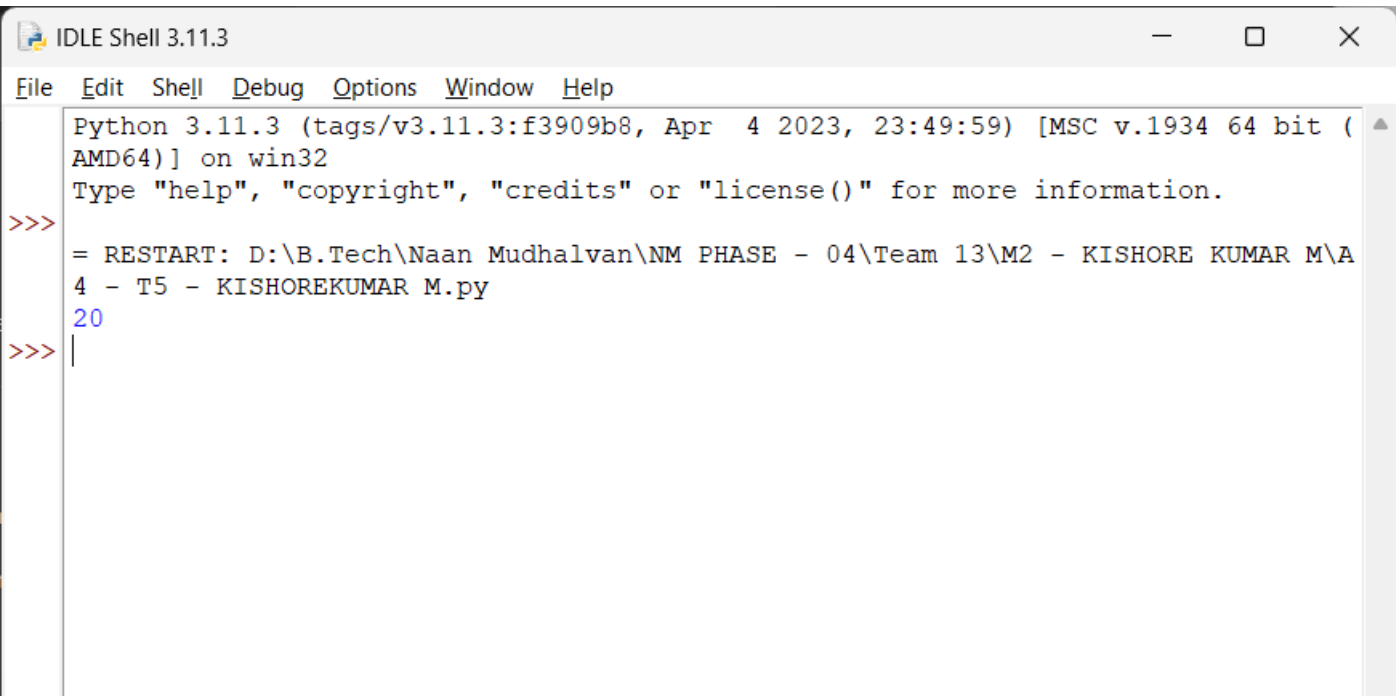
**Task – 5**

**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 shows 'IDLE Shell 3.11.3' with standard window controls. The menu bar includes 'File', 'Edit', 'Shell', 'Debug', 'Options', 'Window', and 'Help'. The shell area displays 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.', a prompt '>>>' followed by a multi-line string assignment: '= RESTART: D:\B.Tech\Naan Mudhalvan\NM PHASE - 04\Team 13\M2 - KISHORE KUMAR M\A 4 - T5 - KISHOREKUMAR M.py', and the output '20' in blue. A second prompt '>>>' is shown with a cursor on the next line.

```
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\M2 - KISHORE KUMAR M\A 4 - T5 - KISHOREKUMAR M.py  
20  
>>>|
```