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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 = ["a", "b", "c"]
list2 = [1, 2, 3]
for x in list2:
    list1.append(x)
print(list1)
```

### Output:

```

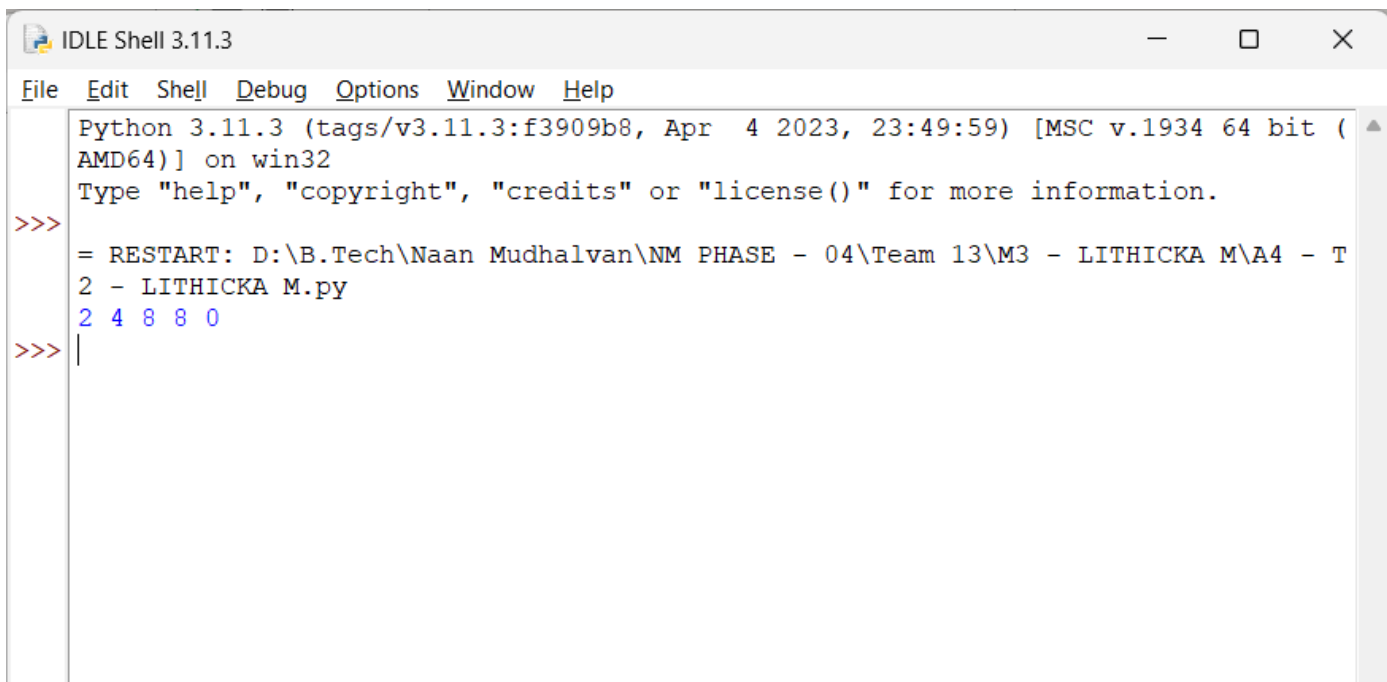
Python 3.11.3 (tags/v3.11.3:f3909b8, Apr  4 2023, 23:49:59) [MSC v.1934 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
= RESTART: D:\B.Tech\Naan Mudhalvan\NM PHASE - 04\Team 13\M3 - LITHICKA M\A4 - T
1 - LITHICKA M.py
['a', 'b', 'c', 1, 2, 3]
>>>

```

Task - 2	With if statement find the even numbers.
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### Coding:

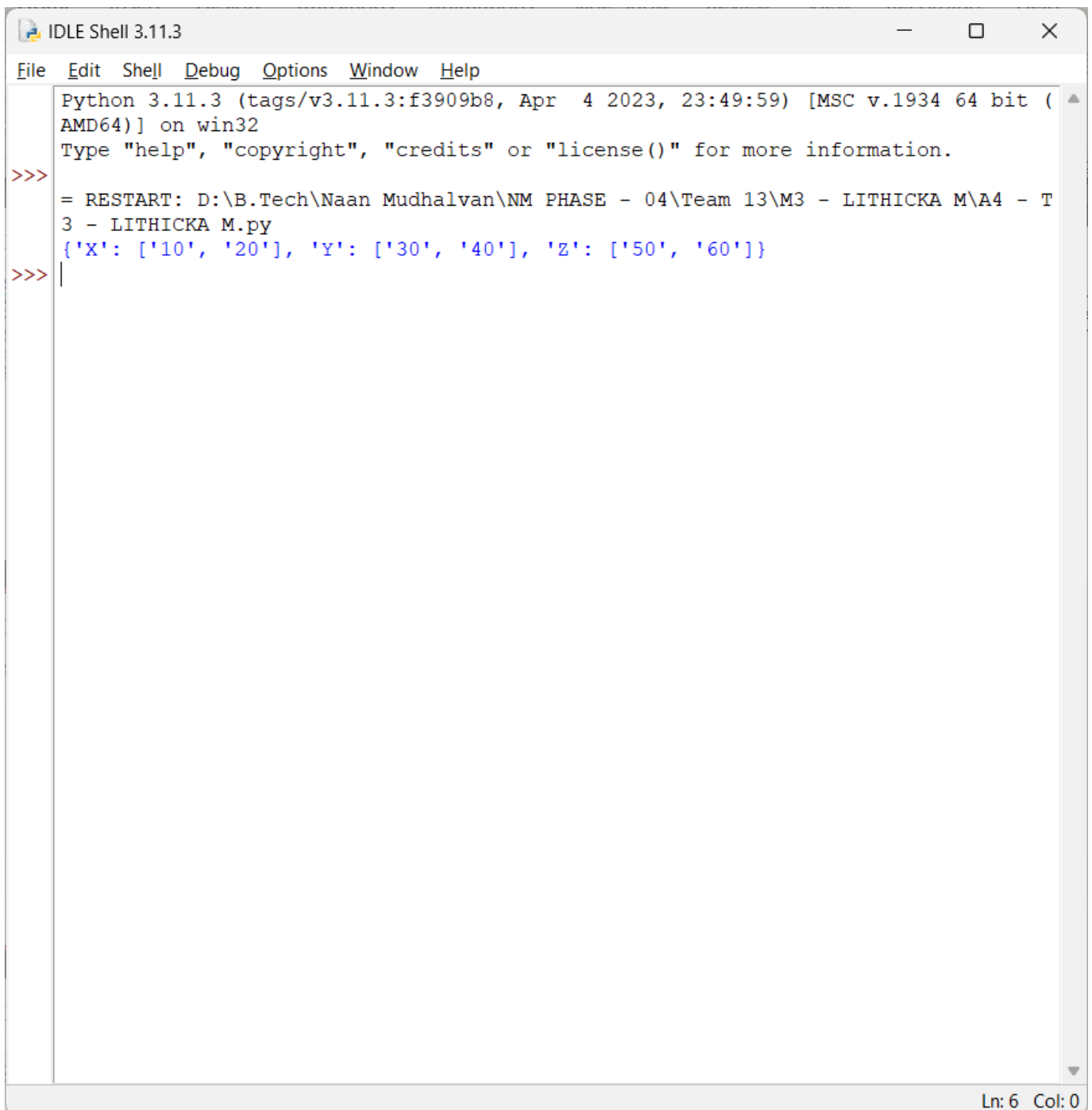
```
list1 = [1, 2, 3, 4]
list2 = [5, 8, 8, 0]
list3=list1.extend(list2)
for n in list1:
    if (n%2==0):
        print(n, end=" ")
```



```
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\M3 - LITHICKA M\A4 - T
2 - LITHICKA M.py
2 4 8 8 0
>>> |
```

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

```
dict = {'X':['10','20'],'Y':['30','40'],'Z':['50','60']}  
print(dict)
```

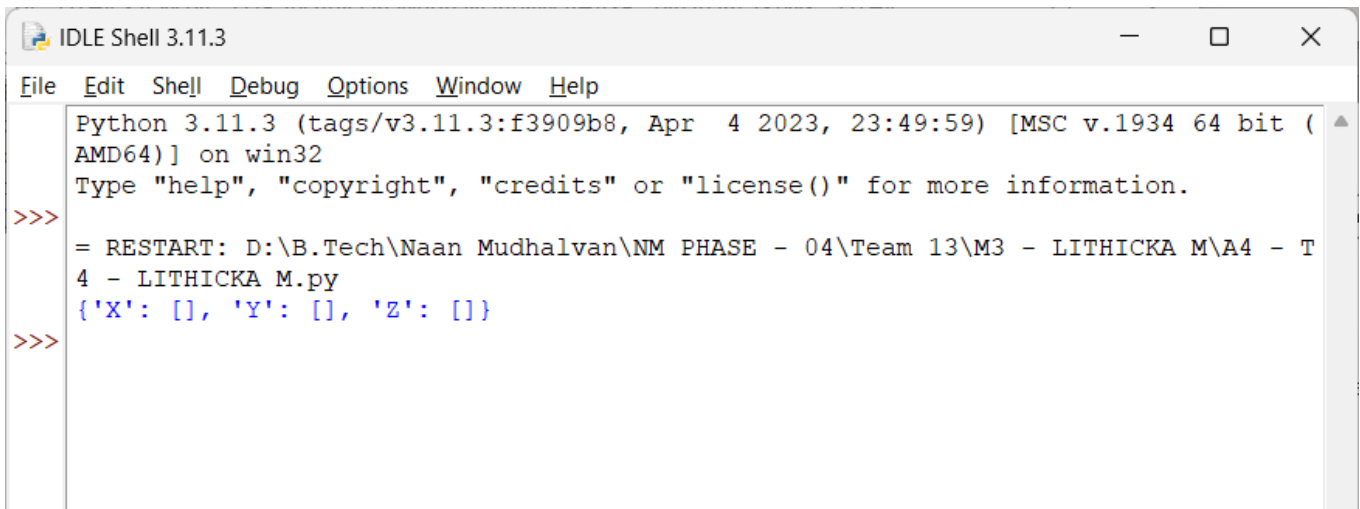
**Output:**

```
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\M3 - LITHICKA M\A4 - T 3 - LITHICKA M.py  
{'X': ['10', '20'], 'Y': ['30', '40'], 'Z': ['50', '60']}  
>>> |
```

Ln: 6 Col: 0

**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 = {'X':[10,20],'Y':[30,40],'Z':[50,60]}  
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\M3 - LITHICKA M\A4 - T  
4 - LITHICKA M.py  
{'X': [], 'Y': [], 'Z': []}  
>>>
```

**Task – 5**

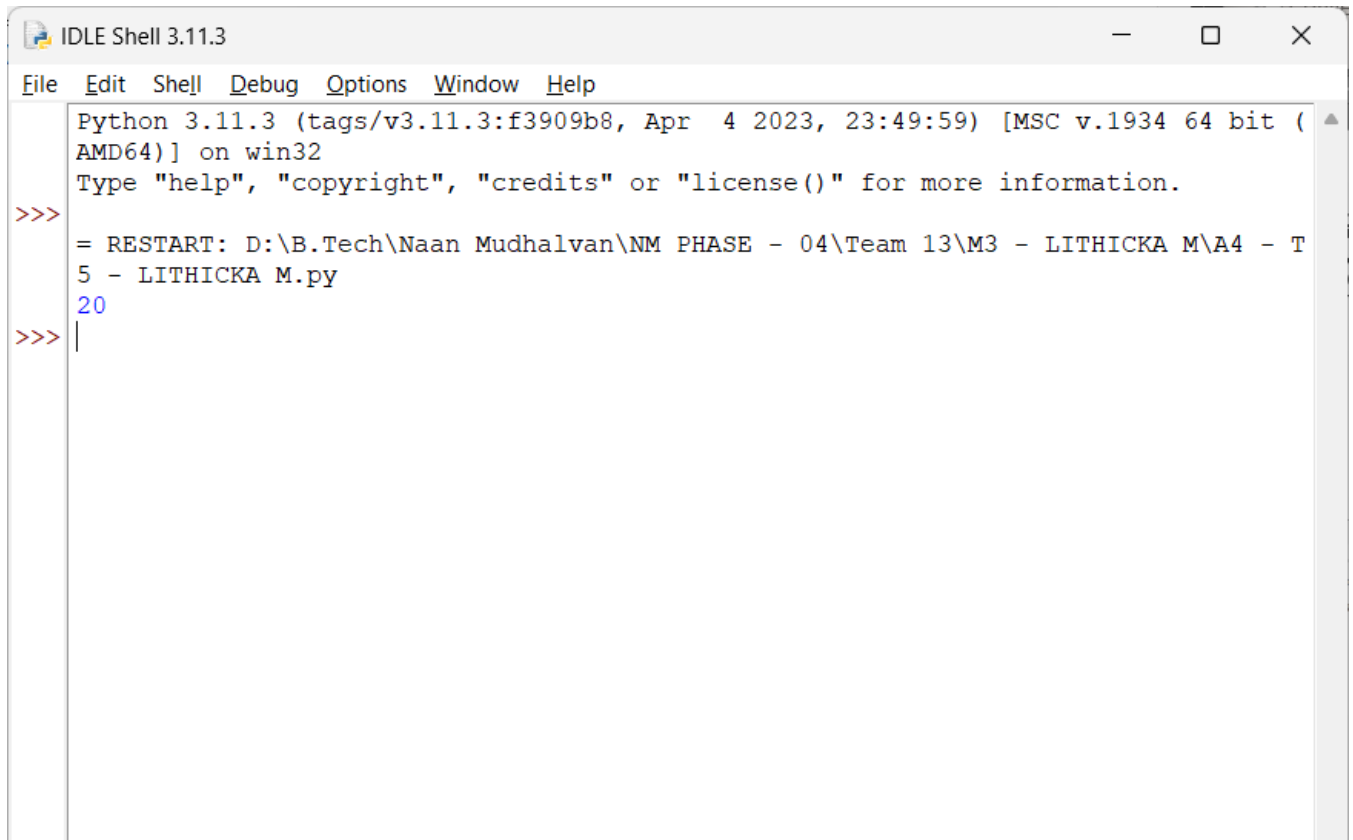
**Write a Python function to sum all the numbers in a list.**

**Sample List : (8,2,3,0,7)**

**Expected Output : 20**

**Coding:**

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

**Output:**

```
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\M3 - LITHICKA M\A4 - T5 - LITHICKA M.py
20
>>>
```