

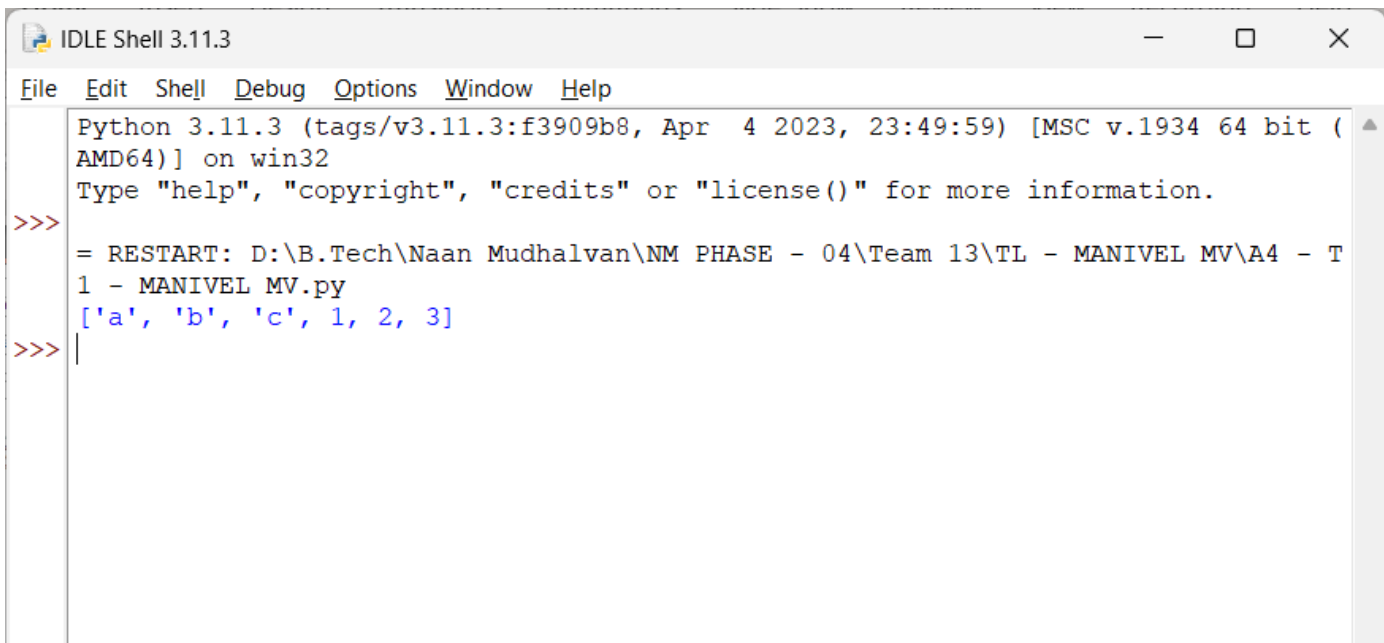
<b>NAME</b>	<b>MANIVEL M V</b>
<b>REG NO</b>	<b>310820205052</b>
<b>NM ID</b>	<b>8D48DDF933745F2A2DF4A36340D40B61</b>
<b>EMAIL ID</b>	<b>manivelv010902@gmail.com</b>
	<b>ASSIGNMENT - 4</b>

<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]
list3 = list1 + list2
print(list3)
```

### Output:



```

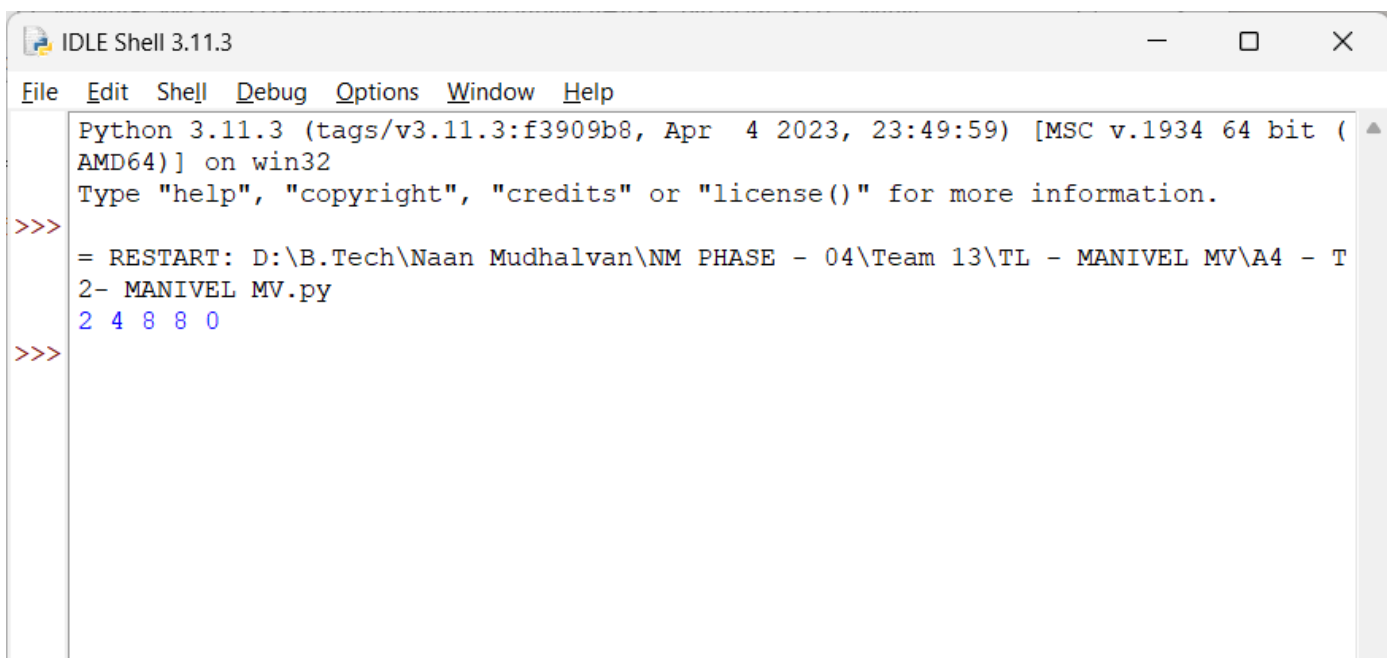
IDLE Shell 3.11.3
File Edit Shell Debug Options Window Help
Python 3.11.3 (tags/v3.11.3:f3909b8, Apr 4 2023, 23:49:59) [MSC v.1934 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>> = RESTART: D:\B.Tech\Naan Mudhalvan\NM PHASE - 04\Team 13\TL - MANIVEL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

```

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

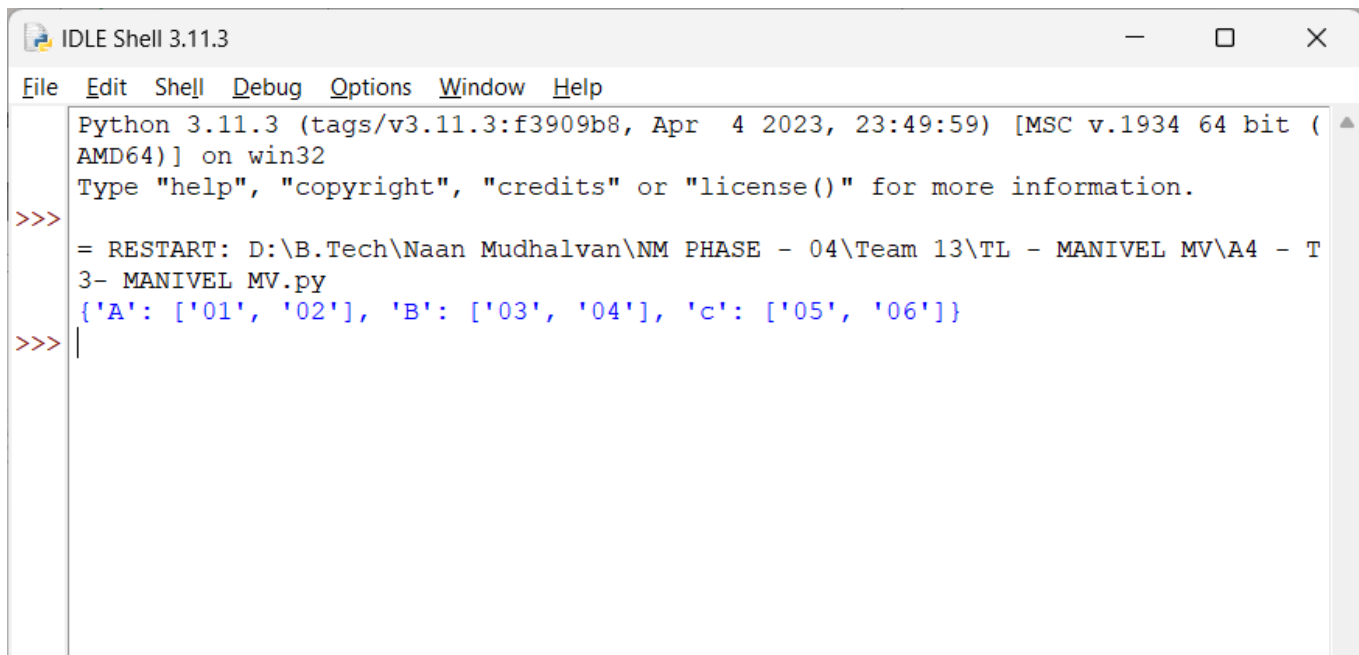
```
list1 = [1, 2, 3, 4]
list2 = [5, 8, 8, 0]
list3=list1.extend(list2)
for n in list1:
    if (n%2==0):
        print(n, end=" ")
```

**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\TL - MANIVEL MV\A4 - T
2- MANIVEL MV.py
2 4 8 8 0
>>>
```

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

```
dict = {'A':['01','02'],'B':['03','04'],'c':['05','06']}  
print(dict)
```

**Output:**A screenshot of the IDLE Shell 3.11.3 window. The title bar shows 'IDLE Shell 3.11.3' and 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 red prompt '>>>', a file path 'D:\B.Tech\Naan Mudhalvan\NM PHASE - 04\Team 13\TL - MANIVEL MV\A4 - T 3- MANIVEL MV.py', and the dictionary definition {'A': ['01', '02'], 'B': ['03', '04'], 'c': ['05', '06']} in blue text. A second red prompt '>>>' is shown on the line following the dictionary definition, with a cursor at the end of the line.

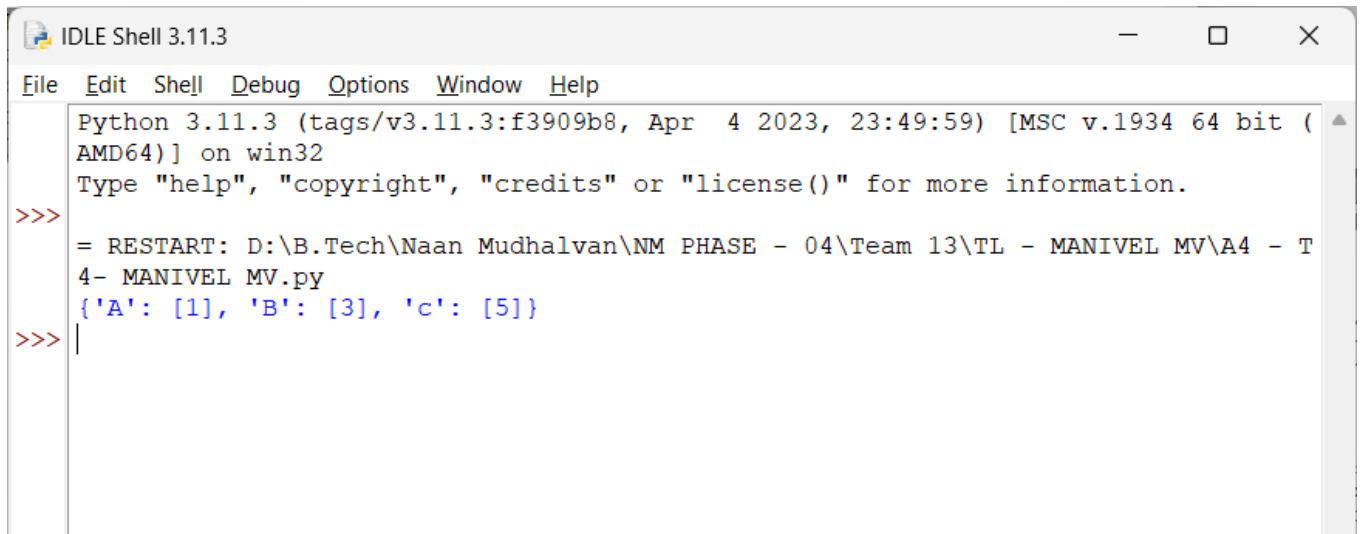
```
IDLE Shell 3.11.3  
File Edit Shell Debug Options Window Help  
Python 3.11.3 (tags/v3.11.3:f3909b8, Apr 4 2023, 23:49:59) [MSC v.1934 64 bit (AMD64)] on win32  
Type "help", "copyright", "credits" or "license()" for more information.  
>>>  
= RESTART: D:\B.Tech\Naan Mudhalvan\NM PHASE - 04\Team 13\TL - MANIVEL MV\A4 - T 3- MANIVEL MV.py  
{'A': ['01', '02'], 'B': ['03', '04'], 'c': ['05', '06']}  
>>> |
```

Task – 4	Create a function with if statement which is used to find the odd numbers.
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### Coding:

```
def odd_elements(dictionary):  
    return {key: [x for x in value if x % 2 != 0] for key, value in dictionary.items()}  
dictionary = {'A':[1,2],'B':[3,4],'c':[5,6]}  
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\TL - MANIVEL MV\A4 - T  
4- MANIVEL MV.py  
{'A': [1], 'B': [3], 'c': [5]}  
>>> |
```

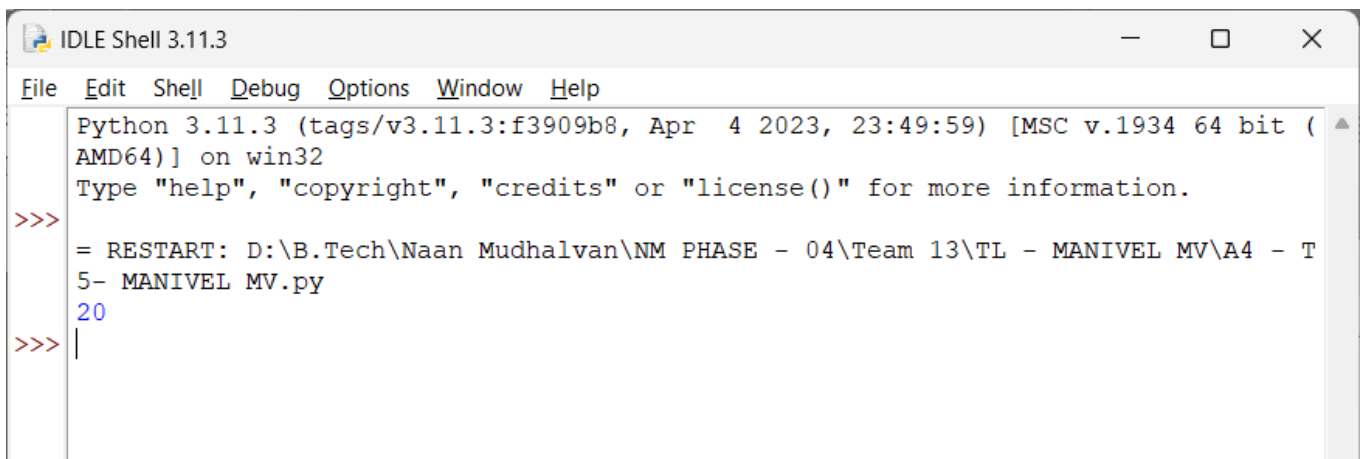
**Task – 5**

**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 shell 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.", and a red prompt ">>>" followed by the command "= RESTART: D:\B.Tech\Naan Mudhalvan\NM PHASE - 04\Team 13\TL - MANIVEL MV\A4 - T 5- MANIVEL MV.py". The output "20" is displayed in blue text. A second red prompt ">>>" is shown at the bottom with a vertical cursor line.

```
IDLE Shell 3.11.3
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\TL - MANIVEL MV\A4 - T 5- MANIVEL MV.py
20
>>> |
```