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	ASSIGNMENT - 4

Task - 1	Create two list and join those two list.

Coding:

```
list1 = ["a", "b" , "c"]
list2 = [1, 2, 3]
list3 = list1 + list2
print(list3)
```

Output:

Task - 2	With if statement find the even numbers.

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
>>>
```
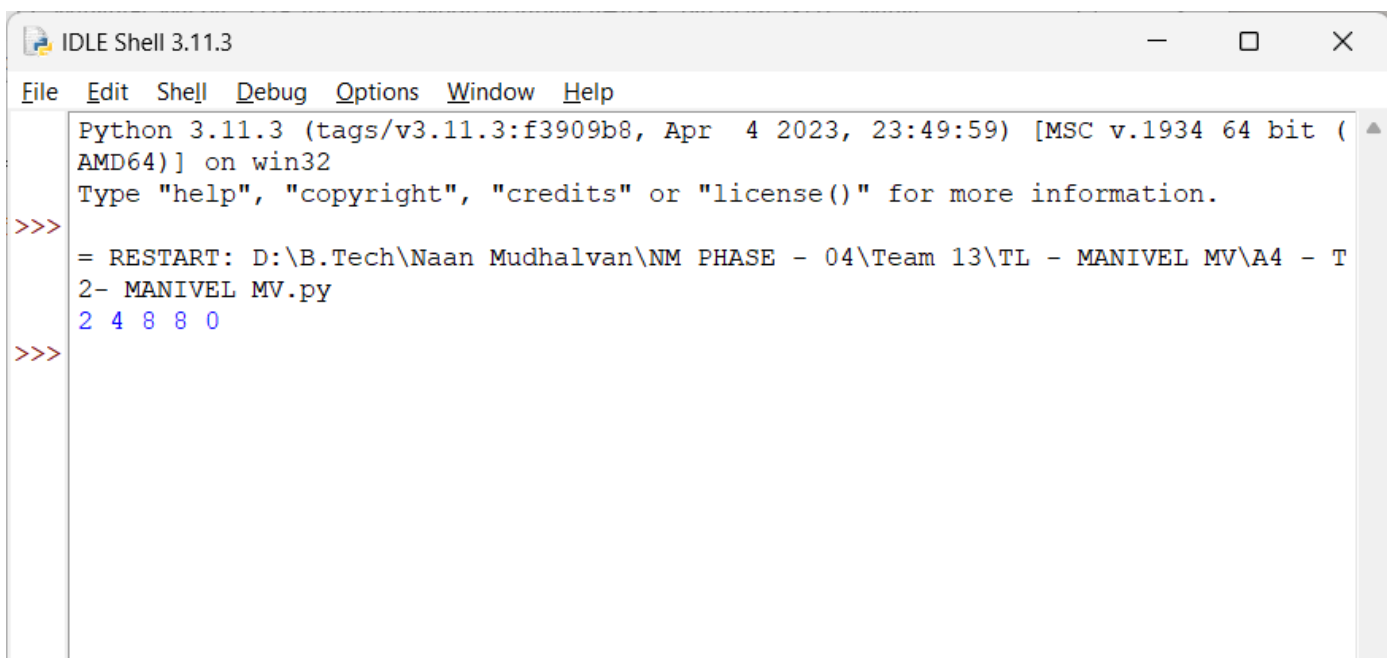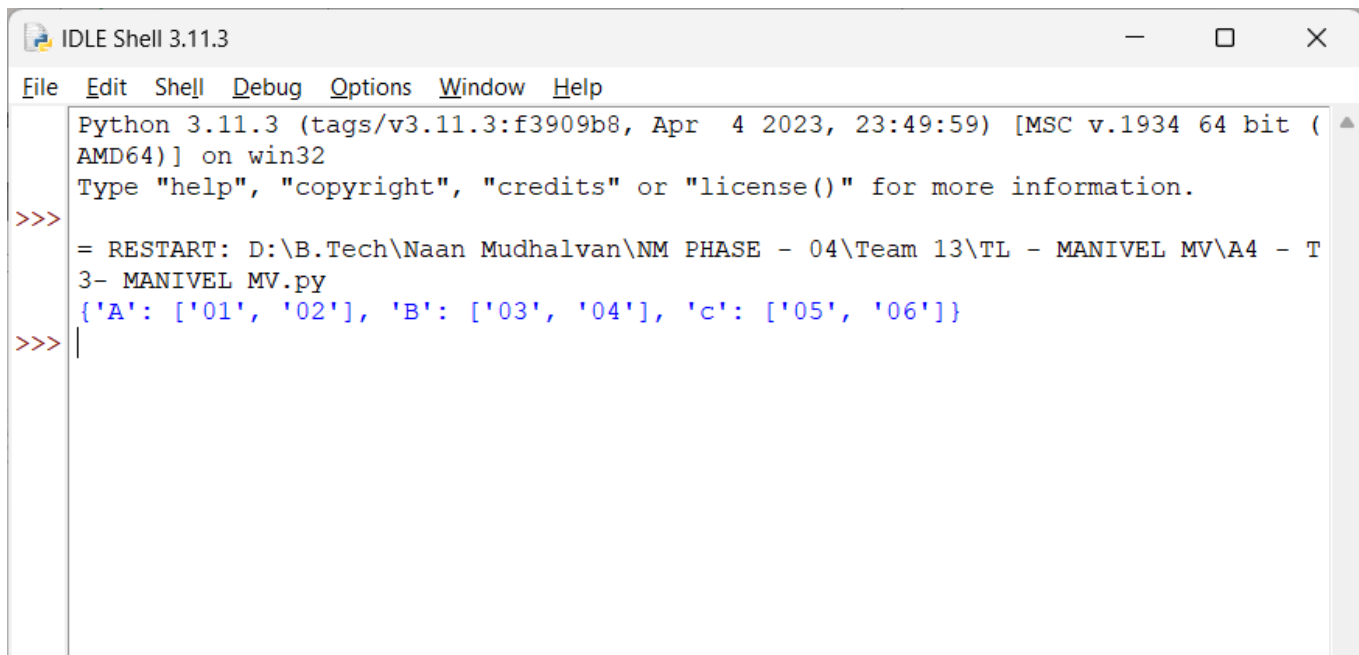
Task – 3	Create a Dictionary with 3 keys and 2 values for each key.

Coding:

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

Output:

IDLE Shell 3.11.3 — □ ✕

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```
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.

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:

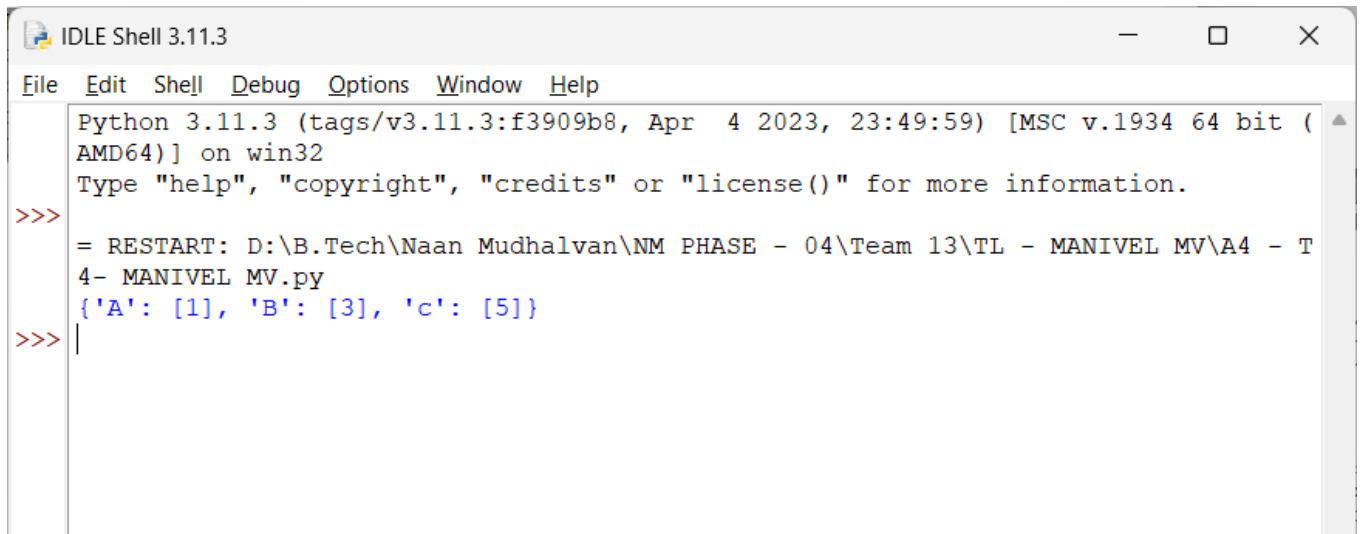```
IDLE Shell 3.11.3   —   □   X
File Edit Shell Debug Options Window Help
    Python 3.11.3 (tags/v3.11.3:f3909b8, Apr 4 2023, 23:49:59) [MSC v.1934 64 bit (▲
    AMD64)] on win32
    Type "help", "copyright", "credits" or "license()" for more information.
>>>
    = RESTART: D:\B.Tech\Naan Mudhalvan\NM PHASE - 04\Team 13\TL - MANIVEL MV\A4 - T
    4- MANIVEL MV.py
    {'A': [1], 'B': [3], 'c': [5]}
>>> |
```
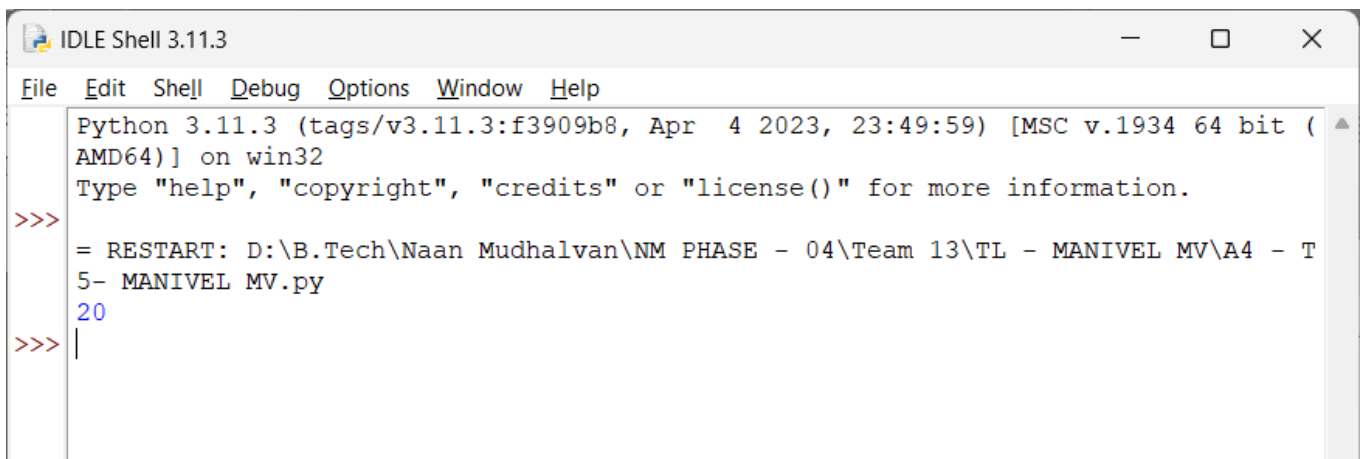
| Task – 5 | Write a Python function to sum all the numbers in a list.<br>Sample List : (8,2,3,0,7)<br>Expected Output : 20 |
|---|---|

**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\TL - MANIVEL MV\A4 - T
    5- MANIVEL MV.py
    20
>>> |
```