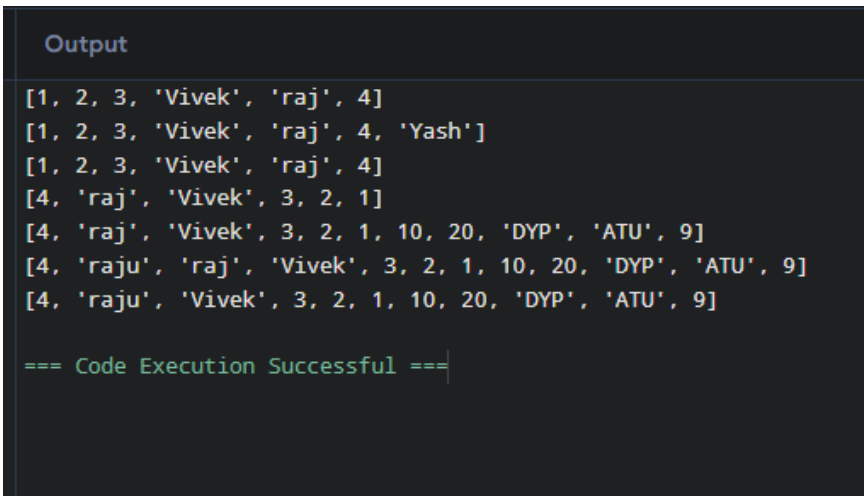
## Practical No 6

**Roll No. 2049**

## Q) Write a program to Perform all operations on list.

```
a = [1, 2, 3,"Vivek","raj",4]
b= [10,20,"DYP","ATU",9]
print(a)
a.append("Yash")
print(a)
a.pop()
print(a)
a.reverse()
print(a)
a.extend(b)
print(a)
a.insert(1,'raju')
print(a)
a.remove("raj")
print(a)
```

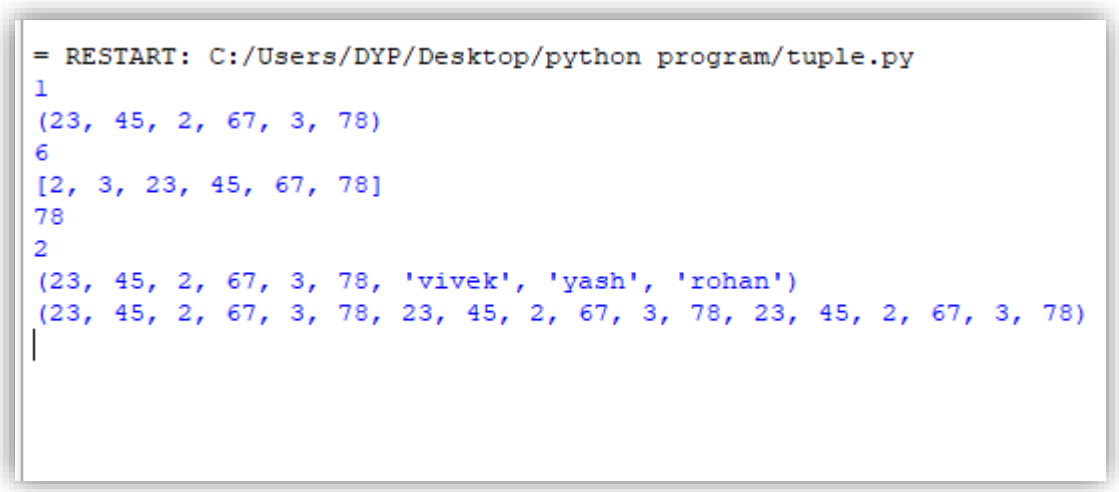
**Output:**



## Q 2) Write a program to Perform all operations on Tuple.

```
name=(23,45,2,67,3,78)
number=("vivek","yash","rohan")
count=name.count(3)
print(count)
name.index(2)
print(name)
length=len(name)
print(length)
sorted=sorted(name)
print(sorted)
maximum=max(name)
print(maximum)
minimum=min(name)
print(minimum)
concat=name+number
print(concat)
replicate=name*3
print(replicate)
```

## Output:



## Q 3) Write a program to Perform all operations on Set.

```
E = {0, 2, 4, 6, 8};
N = {1, 2, 3, 4, 5};
set1={"apple","Banana","chery"}
print("Union of E and N is",E | N)
print("Intersection of E and N is",E & N)
print("Difference of E and N is",E - N)
print("Symmetric difference of E and N is",E ^ N)
set1.add("Orange")
print(set1)
set1.pop()
print(set1)
set1.remove("apple")
print(set1)
```

## Output:

```
= RESTART: C:/Users/DYP/Desktop/python program/tuple.py
Union of E and N is {0, 1, 2, 3, 4, 5, 6, 8}
Intersection of E and N is {2, 4}
Difference of E and N is {0, 8, 6}
Symmetric difference of E and N is {0, 1, 3, 5, 6, 8}
{'chery', 'apple', 'Orange', 'Banana'}
{'apple', 'Orange', 'Banana'}
{'Orange', 'Banana'}
```

## Q 4) Write a program to Perform all operations on Dictionary.

```
dict={1:"apple",2:"Banana",3:"chery"}
get=dict.get(2)
print(get)
items=dict.items()
print(items)
keys=dict.keys()
print(keys)
values=dict.values()
print(values)
popitem=dict.popitem()
print(popitem)
```

## Output: