Date:2024-08-20

Aim:

Write a program to perform the following operations on a list.

- Addition
- ii. Insertion
- iii. Slicing

#### **Input Format:**

- The first line should take space-separated integers to form the list.
- The second line of input should prompt the user to enter two integers separated by a space representing the key and value for the insertion.
- The third line should take space-separated start index and end index for slicing.

# **Output Format:**

- First line should display the initial list.
- Second line should display the list after insertion.
- Third line should display the list after slicing.

## Example 1:

## Input:

12345

05

03

## Output

```
[1, 2, 3, 4, 5]
[5, 1, 2, 3, 4, 5]
[5, 1, 2]
```

# Note:

• In Python, adding an element with append adds it to the end of a list. To insert an element at a specific index, insert operation need to be used.

# **Source Code:**

#### listOp.py

```
list=list(map(int,input().split(" ")))
a,b=map(int,input("").split(" "))
c,d=map(int,input("").split(" "))
print(list)
list.insert(a,b)
print(list)
new_list=list[c:d]
print(new_list)
```

# Execution Results - All test cases have succeeded!

## Test Case - 1

Test Case - 2
User Output
12 52 65 41 23 89 654
7 485
0.8
[12, 52, 65, 41, 23, 89, 654]
[12, 52, 65, 41, 23, 89, 654, 485]

12345

[5, 1, 2]

[1, 2, 3, 4, 5]

[5, 1, 2, 3, 4, 5]

[12, 52, 65, 41, 23, 89, 654, 485]

0 5 03