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### **Assignment-II**

1. Consider a list (list = []). You can perform the following commands: insert i.e., Insert integer at position. print: Print the list. remove e: Delete the first occurrence of integer. append e: Insert integer at the end of the list. sort: Sort the list. pop: Pop the last element from the list. reverse: Reverse the list. Initialize your list and read in the value of followed by lines of commands where each command will be of the types listed above. Iterate through each command in order and perform the corresponding operation on your list.

#### **Code:**

```
a = int(input())
list = []
for i in range(0,a):
    ch = input().split()
    if ch[0] == "insert":
        list.insert(int(ch[1]),int(ch[2]))
    elif ch[0] == "print":
        print(list)
    elif ch[0] == "remove":
        list.remove(int(ch[1]))
    elif ch[0] == "append":
        list.append(int(ch[1]))
    elif ch[0] == "sort":
        list.sort()
    elif ch[0] == "pop":
        list.pop()
```

## Output:

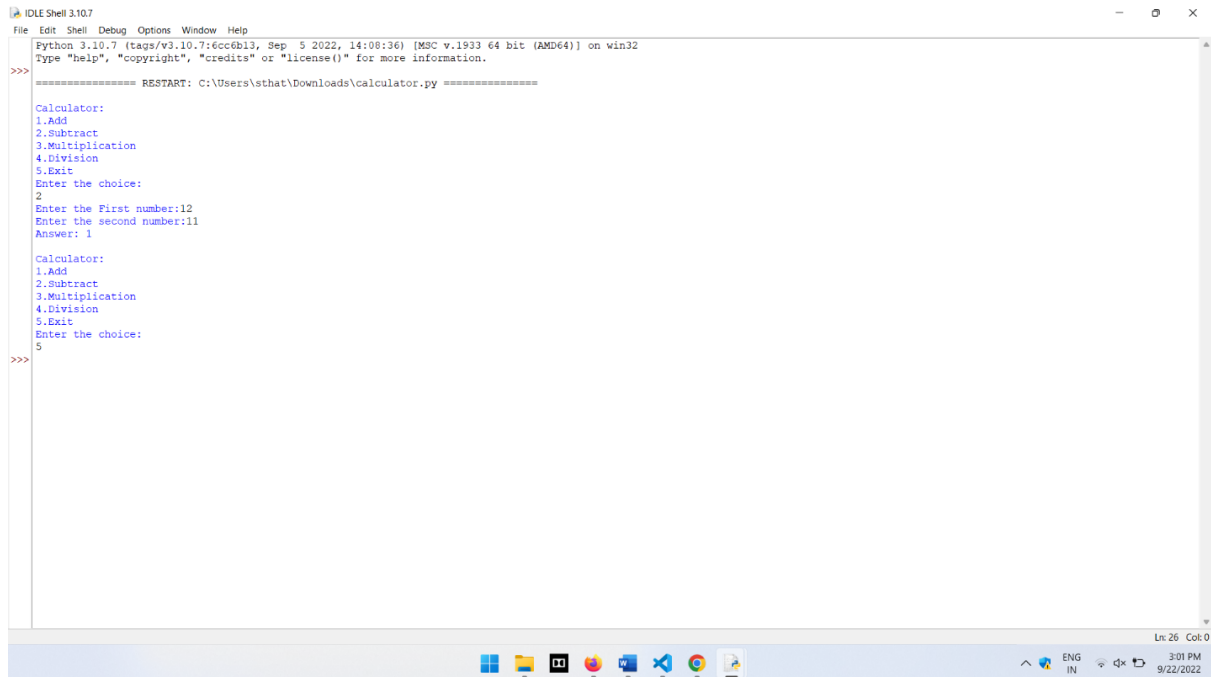
```
Python 3.10.7 (tags/v3.10.7:6cc6b13, Sep 5 2022, 14:08:36) [MSC v.1933 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:\Users\ssthat\Downloads\insert.py =====
5
insert 3 5
insert 4 2
insert 5 1
sort
print
[1, 2, 5]
>>>
```

## 2. Write a Calculator program in Python?

### Code:

```
while(True):
    print("\nCalculator:\n1.Add\n2.Subtract\n3.Multiplication\n4.Division\n5.Exit\n")
    print("Enter the choice...")
    n=int(input())
    if(n==5):
        break
    n1=int(input("Enter the First number\t:"))
    n2=int(input("Enter the second number\t:"))
    if(n==1):
        print("Answer : ",n1+n2)
    elif(n==2):
        print("Answer : ",n1-n2)
    elif(n==3):
        print("Answer : ",n1*n2)
    elif(n==4):
        print("Answer : ",n1/n2)
    else:
        break
```

## Output:



The screenshot shows an IDLE Shell window titled 'IDLE Shell 3.10.7'. The menu bar includes File, Edit, Shell, Debug, Options, Window, and Help. The status bar at the bottom indicates 'Ln: 26 Col: 0' and the system clock shows '3:01 PM 9/22/2022'. The shell displays the following text:

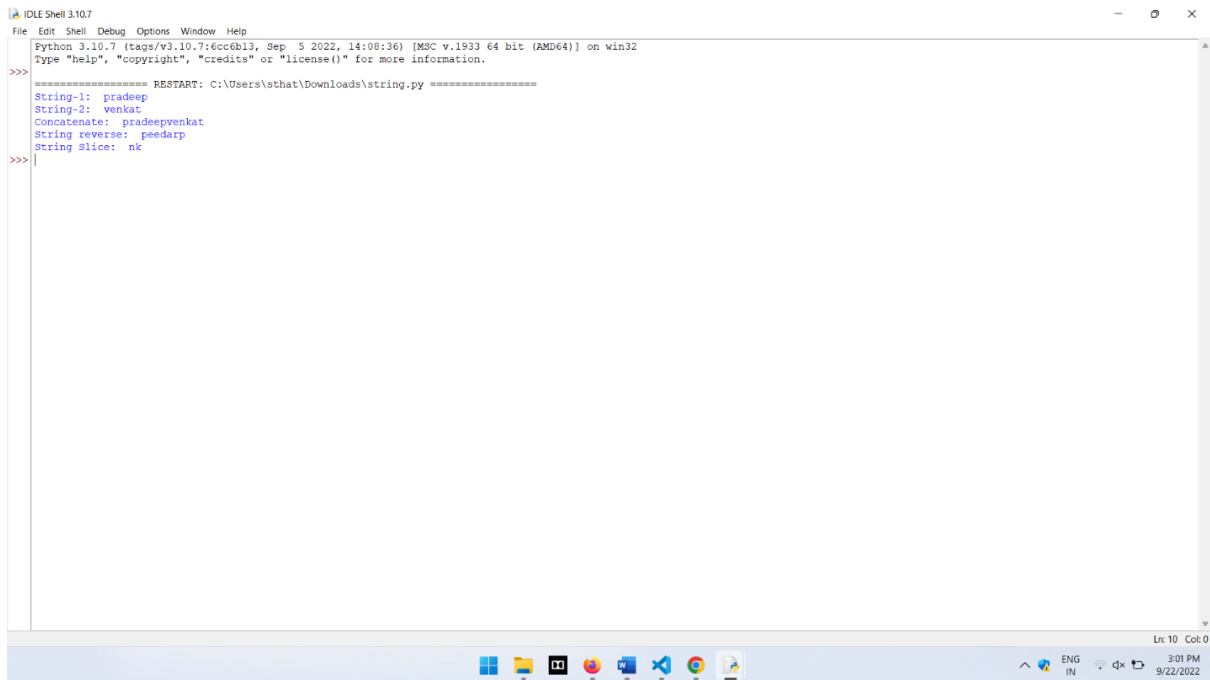
```
Python 3.10.7 (tags/v3.10.7:6cc6b13, Sep 5 2022, 14:08:36) [MSC v.1933 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:\Users\sthat\Downloads\calculator.py =====
Calculator:
1.Add
2.Subtract
3.Multiplication
4.Division
5.Exit
Enter the choice:
2
Enter the First number:12
Enter the second number:11
Answer: 1
Calculator:
1.Add
2.Subtract
3.Multiplication
4.Division
5.Exit
Enter the choice:
5
>>>
```

3. Write a program to concatenate, reverse and slice a string?

### Code:

```
s1="pradeep"
s2="venkat"
print("String-1: ",s1)
print("String-2: ",s2)
print("Concatenate: ",s1+s2)
print("String reverse: ",s1[::-1])
print("String Slice: ",s2[2:4])
```

## Output:



```
Python 3.10.7 (tags/v3.10.7:6cc6b13, Sep  5 2022, 14:08:36) [MSC v.1933 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:\Users\ssthat\Downloads\string.py =====
String-1: pradeep
String-2: venkat
Concatenate: pradeepvenkat
String reverse: peedarp
String Slice: nk
>>>
```