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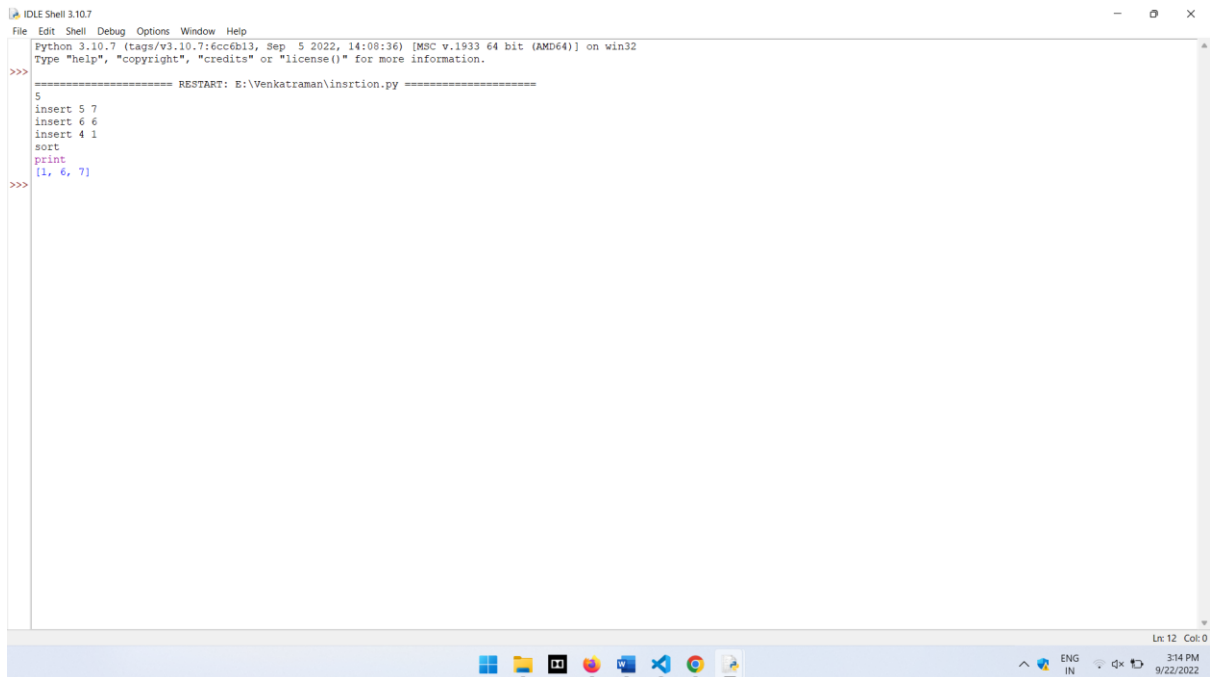
Python module 3 - Assignment

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:

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

Output:



The screenshot shows a Python IDLE Shell window titled 'IDLE Shell 3.10.7'. The menu bar includes File, Edit, Shell, Debug, Options, Window, and Help. The shell text area contains the following code and its 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: E:\Venkatraman\insrtion.py =====
5
insert 5 7
insert 6 6
insert 4 1
sort
print
[1, 6, 7]
>>>
```

The Windows taskbar at the bottom shows the Start button, File Explorer, VS Code, and other applications. The system tray on the right indicates the language is set to 'ENG IN', the date is '9/22/2022', and the time is '3:14 PM'.

2. Write a Calculator program in Python?

Code:

```
while(True):
    print("\nCalculator:\n1.Add\n2.Subtract\n3.Multiplication\n4.Division\n5.Exit")
    print("Enter the choice:")
    n=int(input())
    if(n==5):
        break
    n1=int(input("Enter the First number:"))
    n2=int(input("Enter the second number:"))
    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:

```
IDLE Shell 3.10.7
File Edit Shell Debug Options Window Help
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: E:\Venkatraman\insertion.py =====
5
insert 5 7
insert 6 6
insert 4 1
sort
print
[1, 6, 7]
>>>
===== RESTART: E:\Venkatraman\calci.py =====

Calculator:
1.Add
2.Subtract
3.Multiplication
4.Division
5.Exit
Enter the choice:
2
Enter the First number:4
Enter the second number:1
Answer: 3

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:

Strings

s1="Gopal"

s2="Virath"

print("String-1: ",s1)

print("String-2: ",s2)

print("Concatenate: ",s1+s2)

print("String reverse: ",s1[::-1])

print("String Slice: ",s2[2:4])

Output:

```
===== RESTART: E:\Venkatraman\strings.py =====
String-1: Gopal
String-2: Virath
Concatenate: GopalVirath
String reverse: laopG
String Slice: ra
>>>
```

