Assignment -3

Python Programming

Assignment Date	19 September 2022
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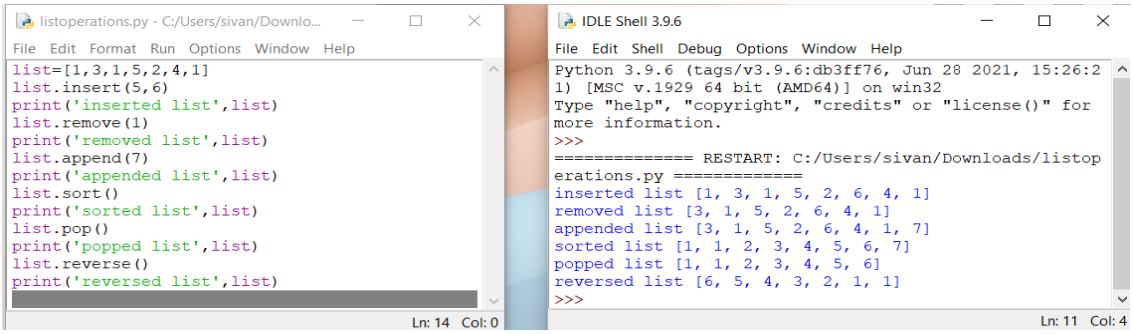
Maximum Marks	2 Marks

Question-1:

Consider a list (list = []). You can perform the following commands:
1. insert i e: Insert integer e at position i.
2. print: Print the list.
3. remove e: Delete the first occurrence of integer e.
4. append e: Insert integer e at the end of the list.
5. sort: Sort the list.
6. pop: Pop the last element from the list.
7. reverse: Reverse the list.
Initialize your list and read in the value of n followed by n lines of commands where each command will be of the 7 types listed above. Iterate through each command in order and perform the corresponding operation on your list.

Solution:

```
list=[1,3,1,5,2,4,1]
list.insert(5,6)
print('inserted list',list)
list.remove(1)
print('removed list',list)
list.append(7)
print('appended list',list)
list.sort()
print('sorted list',list)
list.pop()
print('popped list',list)
list.reverse()
print('reversed list',list)
```



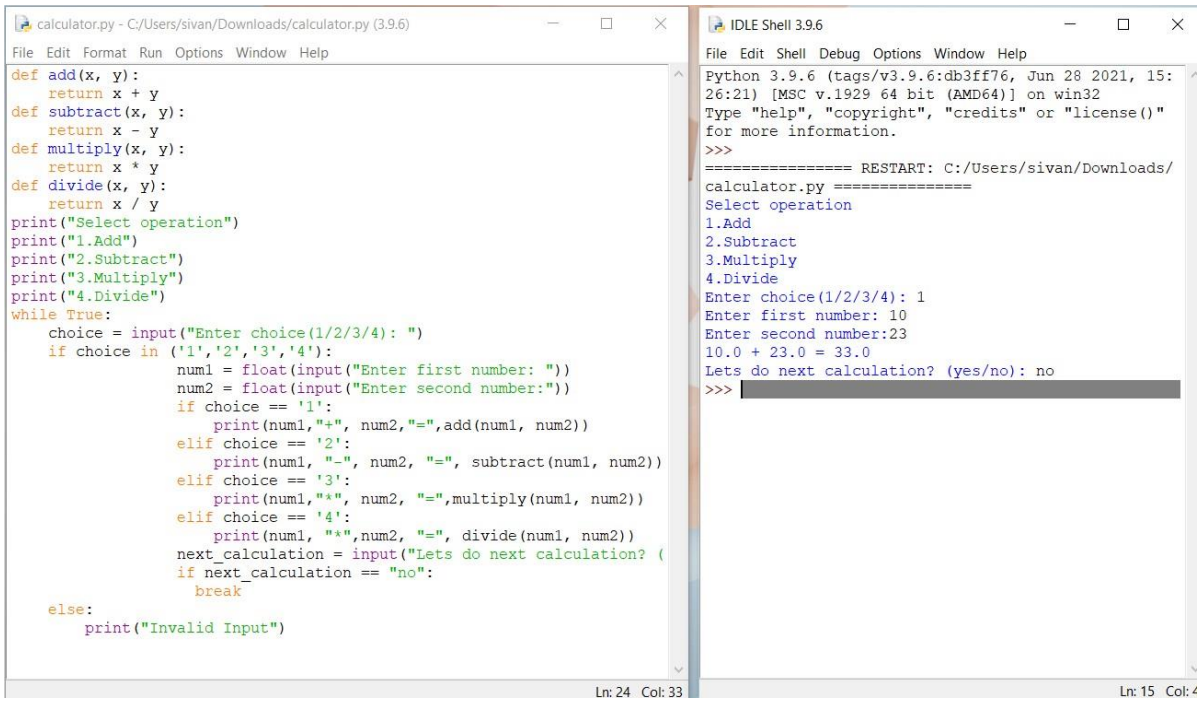
Question-2:

Write a calculator program in python

Solution:

```
def add(x,y):
return x+y
def subtract(x,y):
return x-y
def multiply(x,y):
return x*y
def divide(x,y):
return x/y
print("Select operation")
print("1.Add")
print("2.Subract")
print("3.Multiply")
print("4.Divide")
While True:
choice = input("Enter choice(1/2/3/4):")
if choice in ( ' 1 ' , ' 2 ' , ' 3 ' , ' 4 ' ):
num1 = float(input("Enter first number"))
num2 = float(input("Enter second number"))
if choice == ' 1 ' :
print(num1 ,' + ' , num2, ' = ' , add(num1, num2))
elif choice == ' 2 ':
print(num1 , ' – ' , num2, ' = ' , subtract(num1, num2))
elif choice == ' 3 ' :
print(num1 , ' * ', num2, ' = ' , multiply(num1, num2))
elif choice == ' 4 ' :
print(num1 , ' / ' , num2, ' = ',divide(num1, num2))
next_calculation = input("Let's do next calculation?(yes/no):")
if next_calculation == " no ":
break
```

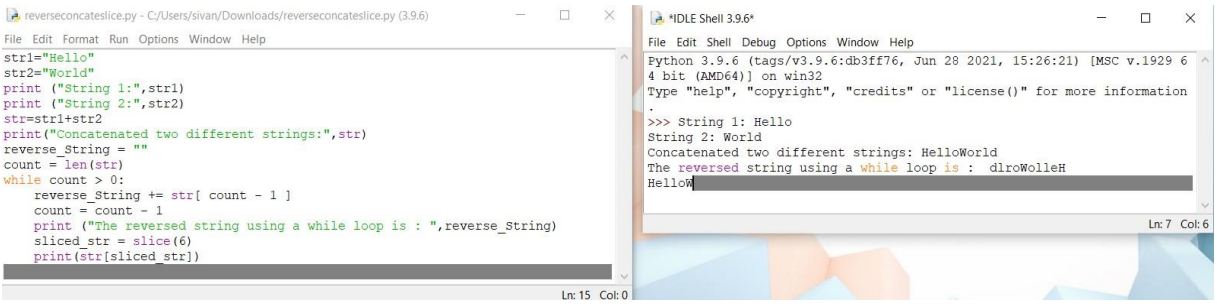
else:
print(“ Invalid Input “)



Question-3:

Write a program to concatenate , reverse and slice a string in python

Solution:
str1 = “Hello”
str2 = ”World”
print(“String 1:”,str1)
print(“String 2:”,str2)
str = str1+str2
print(“Concatenated two different strings:”,str)
reverse_String = “”
count = len(str)
while count > 0:
reverse_String += str[count – 1]
count = count – 1
print (“The reversed string using a while loop is : ”,reverse_String)
sliced_str = slice(6)
print(str[sliced_str])



Question-4:

Why python is popular programming language

Python has a simple syntax and in form of natural English language which helps lot of people to get a hold of what is coding in their first experience.it is highly flexible ,reliable and fast to code.

Question-5:

What are the other frameworks that can be used with python?

Bottle , Flask, Django , Web2py , AIOHTTP , CherryPy , Dash Falcon

Question-6:

Full Form of WSGI

WSGI stands for Web Server Gateway Interface