Assignments
Python assignment - 1

Date	19 September 2022
Student Name	Alex S
Project Name	Project -Skill and Job recommender application
Maximum Marks	2 Marks

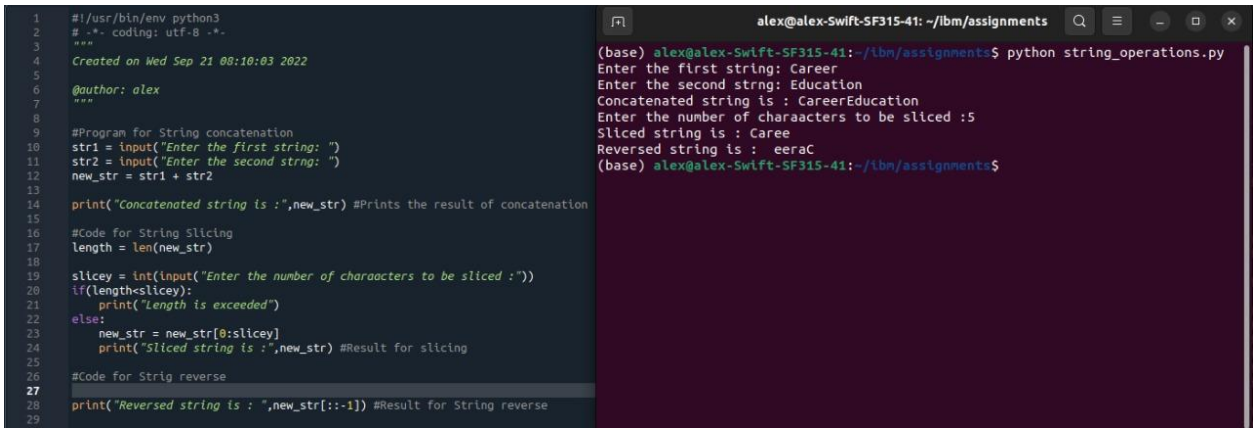
String Operations

Question:

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

Solution :

```
#/usr/bin/env python3
# -*- coding: utf-8 -*-
"""
Created on Wed Sep 21 08:10:03 2022
@author: alex
"""
#Program for String concatenation
str1 = input("Enter the first string: ")
str2 = input("Enter the second strng: ")
new_str = str1 + str2

print("Concatenated string is :",new_str) #Prints the result of concatenation

#Code for String Slicing
length = len(new_str)

slicey = int(input("Enter the number of charaacters to be sliced :"))
if(length<slicey):
    print("Length is exceeded")
else:
    new_str = new_str[0:slicey]
    print("Sliced string is :",new_str) #Result for slicing

#Code for Strig reverse
print("Reversed string is : ",new_str[::-1]) #Result for String reverse
```



Basic Calculator

Question:

Write a Calculator program in Python?

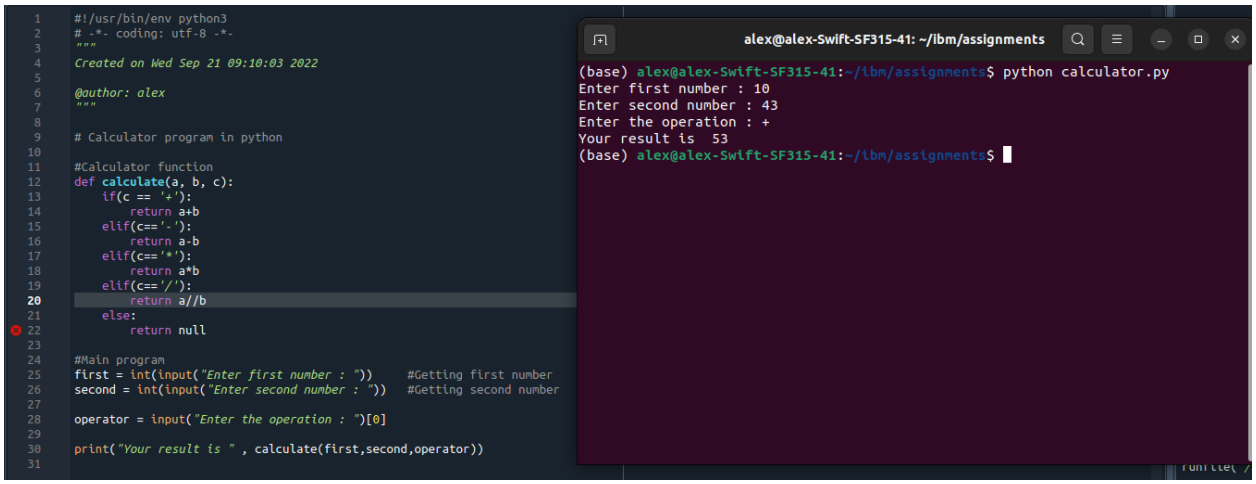
Solution:

```
#!/usr/bin/env python3
# -*- coding: utf-8 -*-
"""
Created on Wed Sep 21 09:10:03 2022

@author: alex
"""

# Calculator program in python

#Calculator function
def calculate(a, b, c):
    if(c == '+'):
        return a+b
    elif(c=='-'):
        return a-b
    elif(c=='*'):
        return a*b
    elif(c=='/'):
        return a//b
    else:
        return null

#Main program
first = int(input("Enter first number : "))     #Getting first number
```

second = int(input("Enter second number : ")) #Getting second number

operator = input("Enter the operation : ")[0]

print("Your result is " , calculate(first,second,operator))



List operations

Questions:

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.

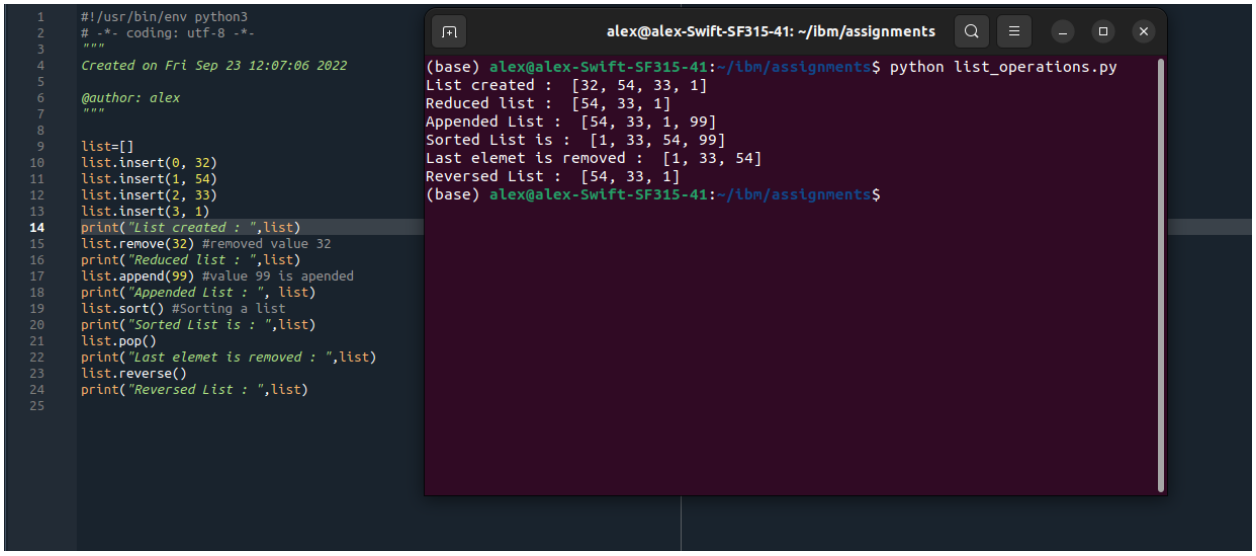
reverse: Reverse the list.

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.

Solution:

```
#!/usr/bin/env python3
# -*- coding: utf-8 -*-
```

```
"""
Created on Fri Sep 23 12:07:06 2022

@author: alex
"""

list=[]
list.insert(0, 32)
list.insert(1, 54)
list.insert(2, 33)
list.insert(3, 1)
print("List created : ",list)
list.remove(32) #removed value 32
print("Reduced list : ",list)
list.append(99) #value 99 is apended
print("Appended List : ", list)
list.sort() #Sorting a list
print("Sorted List is : ",list)
list.pop()
print("Last elemet is removed : ",list)
list.reverse()
print("Reversed List : ",list)
```



Why is Python a popular programming language?

Python is a general-purpose language that is easy to learn and use. Due to its popularity, there is a big and helpful community. Also, Python is backed up by big companies like Google, Amazon, and Facebook. Python is suggested as the first programming language to learn due to its English-like syntax.

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

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

Full form of WSGI?

The Web Server Gateway Interface (WSGI, pronounced whiskey or WIZ-ghee) is a simple calling convention for web servers to forward requests to web applications or frameworks written in the Python programming language.