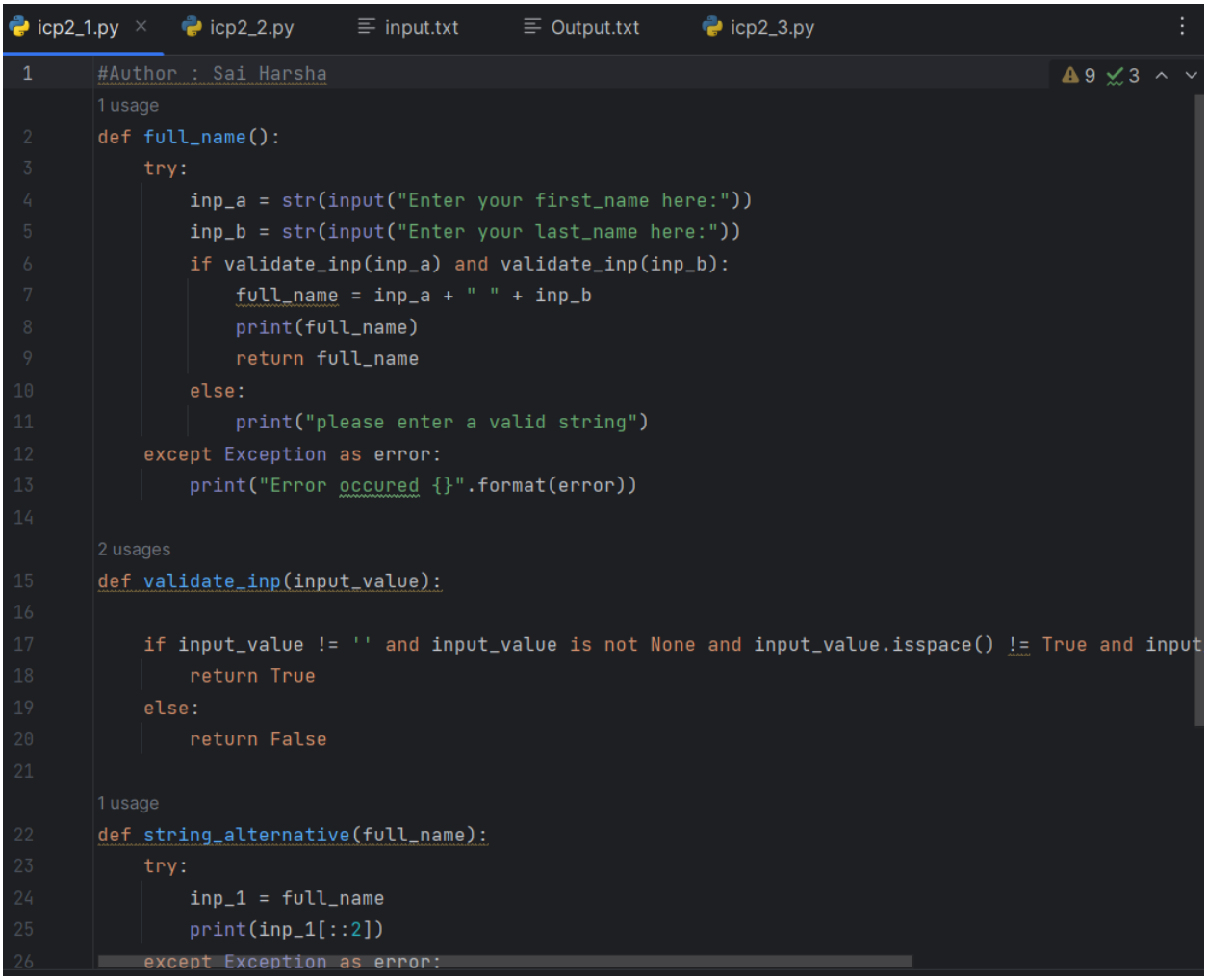
ASSIGNMENT-2

Github link: https://github.com/SAIHB/ICP-2

Program1:



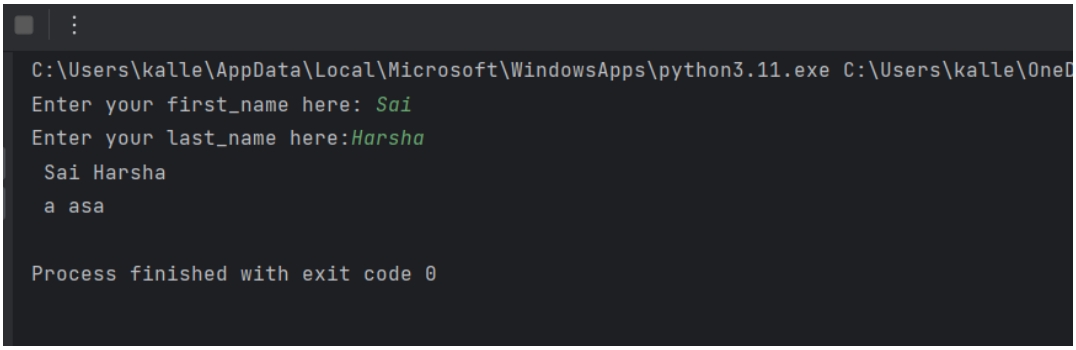
```python
#Author : Sai Harsha
1 usage
def full_name():
    try:
        inp_a = str(input("Enter your first_name here:"))
        inp_b = str(input("Enter your last_name here:"))
        if validate_inp(inp_a) and validate_inp(inp_b):
            full_name = inp_a + " " + inp_b
            print(full_name)
            return full_name
        else:
            print("please enter a valid string")
    except Exception as error:
        print("Error occured {}".format(error))

2 usages
def validate_inp(input_value):

    if input_value != '' and input_value is not None and input_value.isspace() != True and input
        return True
    else:
        return False

1 usage
def string_alternative(full_name):
    try:
        inp_1 = full_name
        print(inp_1[::2])
    except Exception as error:
```

Output:



```
C:\Users\kalle\AppData\Local\Microsoft\WindowsApps\python3.11.exe C:\Users\kalle\OneD
Enter your first_name here: Sai
Enter your last_name here:Harsha
 Sai Harsha
 a asa

Process finished with exit code 0
```

Program2:

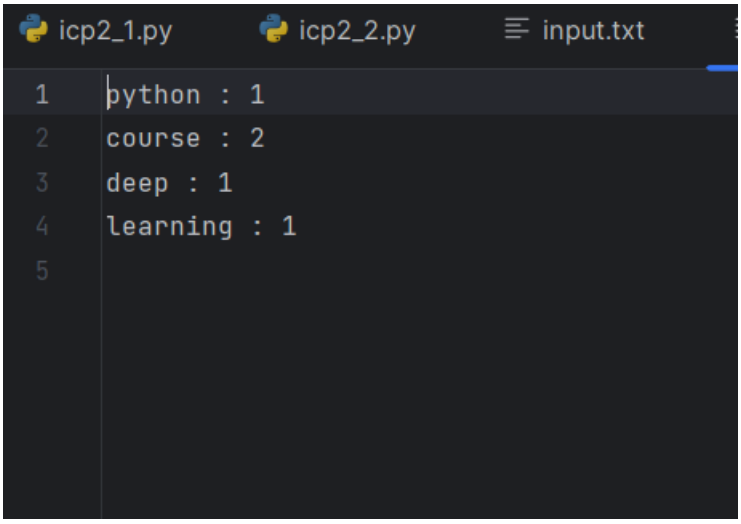
```python
#Author : SAI HARSHA
with open('input.txt','r') as input_file:
        a = dict()
        for sentence in input_file:
            sentence = sentence.strip()
            sentence = sentence.lower()
            words = sentence.split(" ")
            for word in words:
                if word in a:
                    a[word] = a[word] + 1
                else:
                    a[word] = 1
        with open('Output.txt','w') as output_file:
            for key in list(a.keys()):
                print(key,":",a[key],file = output_file)
```

Output:

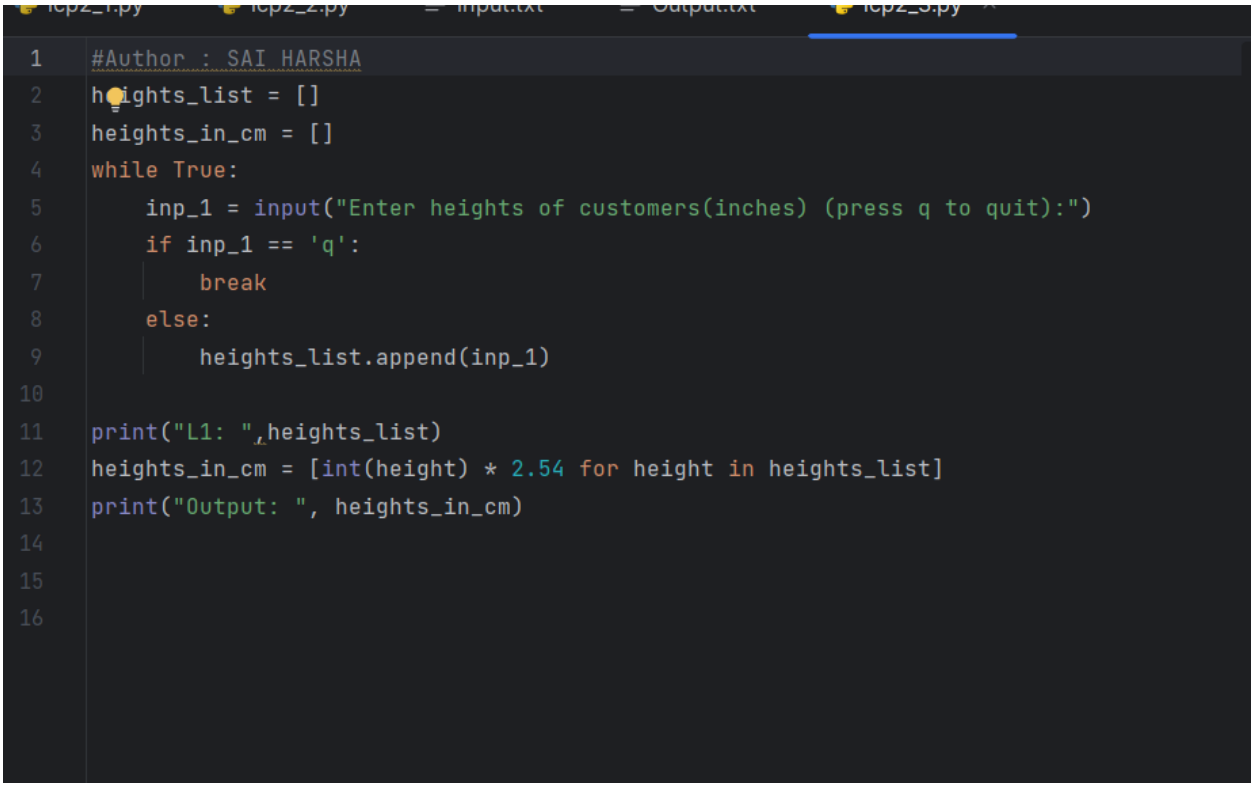
1. Input:

```
Python Course
Deep Learning Course
```

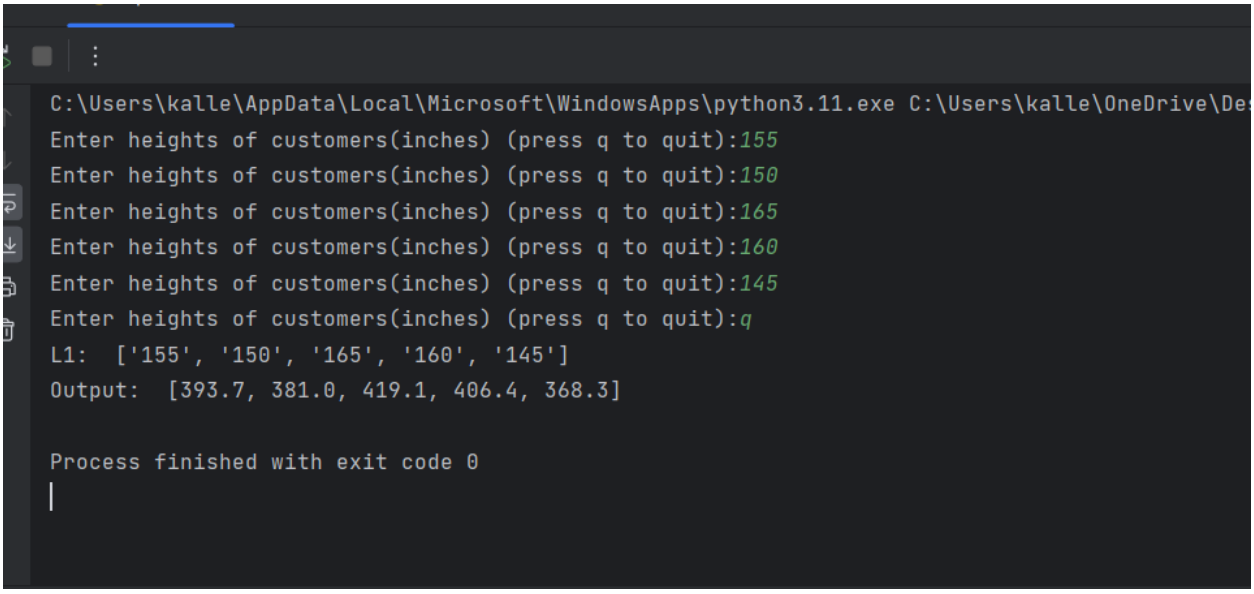
2. Output:



Program3:



Output:


C:\Users\kalle\AppData\Local\Microsoft\WindowsApps\python3.11.exe C:\Users\kalle\OneDrive\De
Enter heights of customers(inches) (press q to quit):155
Enter heights of customers(inches) (press q to quit):150
Enter heights of customers(inches) (press q to quit):165
Enter heights of customers(inches) (press q to quit):160
Enter heights of customers(inches) (press q to quit):145
Enter heights of customers(inches) (press q to quit):q
L1: ['155', '150', '165', '160', '145']
Output: [393.7, 381.0, 419.1, 406.4, 368.3]
Process finished with exit code 0