ASSIGNMENT-2

GITHUB LINK: https://github.com/vvnandhan/ICP-2

Program1:

```python
#Author : Vayu_Nandhan_Valluri
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_value.isnumeric() != True:
        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:
        print("Error occured {}".format(error))

if __name__ == "__main__":
    f = full_name()
    string_alternative(f)
```

Output:

```
C:\Users\vvnan\AppData\Local\Programs\Python\Python36\python.exe C:\Users\vvnan\OneDrive\Desktop\Neural\ICP2\ICP
Enter your first_name here: Vayu
Enter your last_name here:Nandhan
 Vayu  Nandhan
 au ada

Process finished with exit code 0
```

Program2:

icp2_1.py | icp2_2.py | input.txt | Output.txt | icp2_3.py

```
#Author : Vayu_Nandhan_Valluri
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)
```

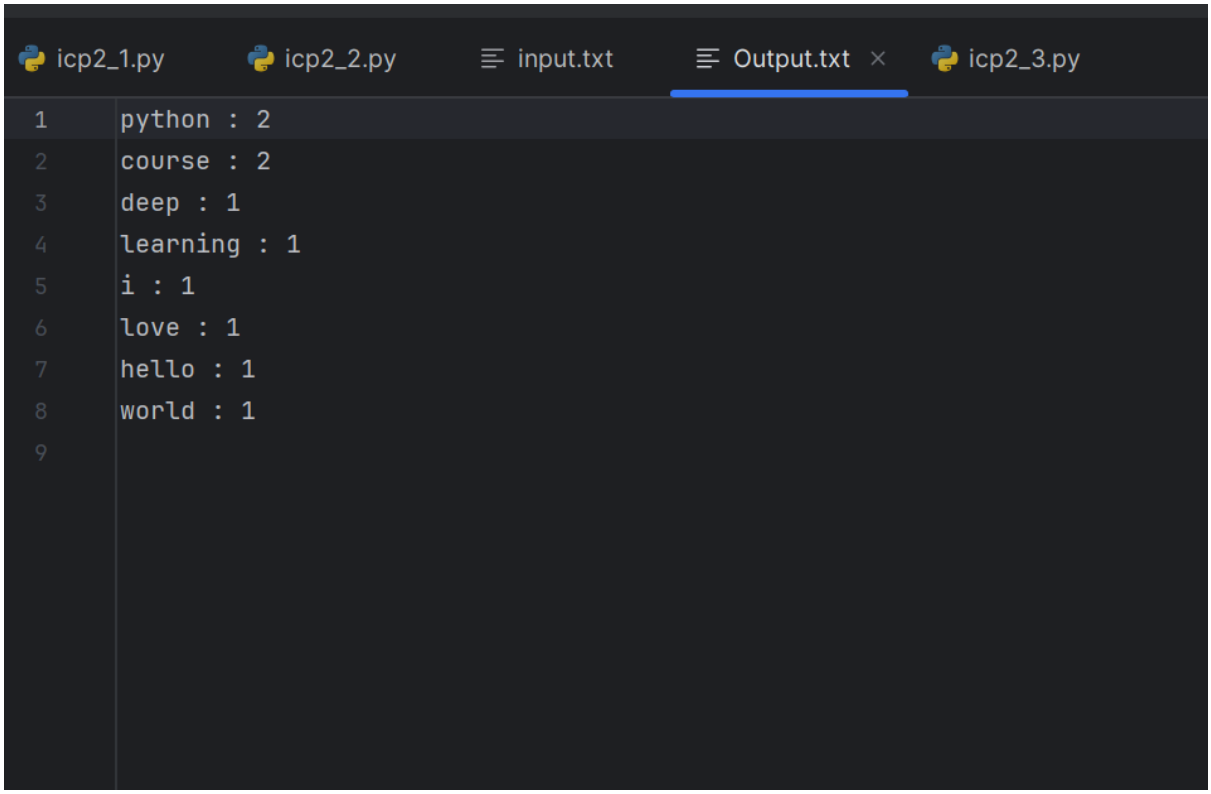
Output:

Input given:

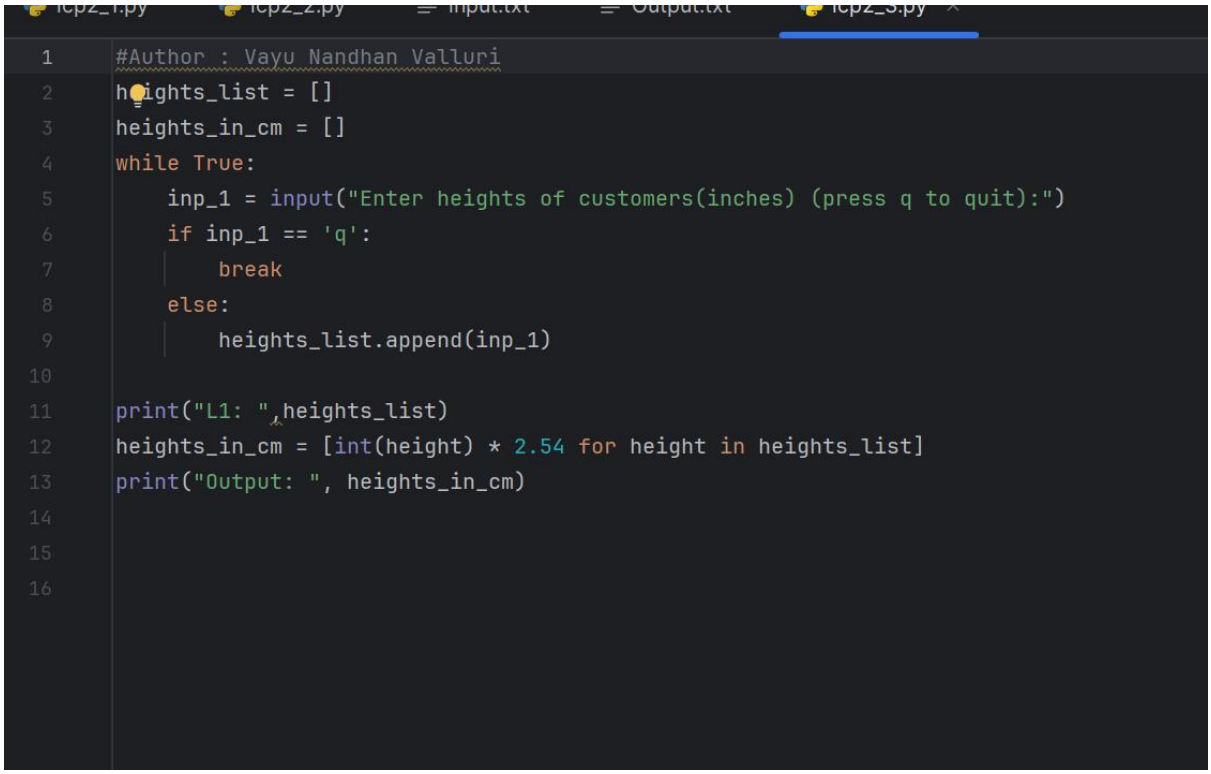
icp2_1.py | icp2_2.py | input.txt | Output.txt | icp2_3.py

```
Python Course
Deep Learning Course
I Love Python
Hello World
```

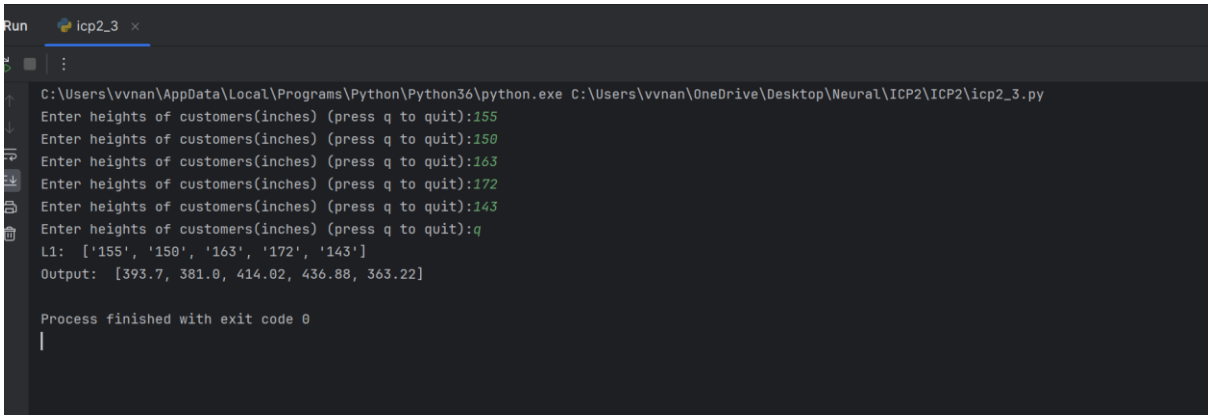
Output obtained:



Program3:



Output:


Run
icp2_3
C:\Users\vvnan\AppData\Local\Programs\Python\Python36\python.exe C:\Users\vvnan\OneDrive\Desktop\Neural\ICP2\ICP2\icp2_3.py
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):163
Enter heights of customers(inches) (press q to quit):172
Enter heights of customers(inches) (press q to quit):143
Enter heights of customers(inches) (press q to quit):q
L1: ['155', '150', '163', '172', '143']
Output: [393.7, 381.0, 414.02, 436.88, 363.22]
Process finished with exit code 0