Assignment 2 – ICP_1_Spring24

Student id: 700763475

Ucm id :sxn34750

Name :Sai Nalla

Github Link : https://github.com/Sai-Nalla/NNDL.git

Recorded Video : https://drive.google.com/file/d/15HdaCDzMzFjD-ft5Xm41JN4DfWHQ1akJ/view?usp=drivesdk

Technical Document

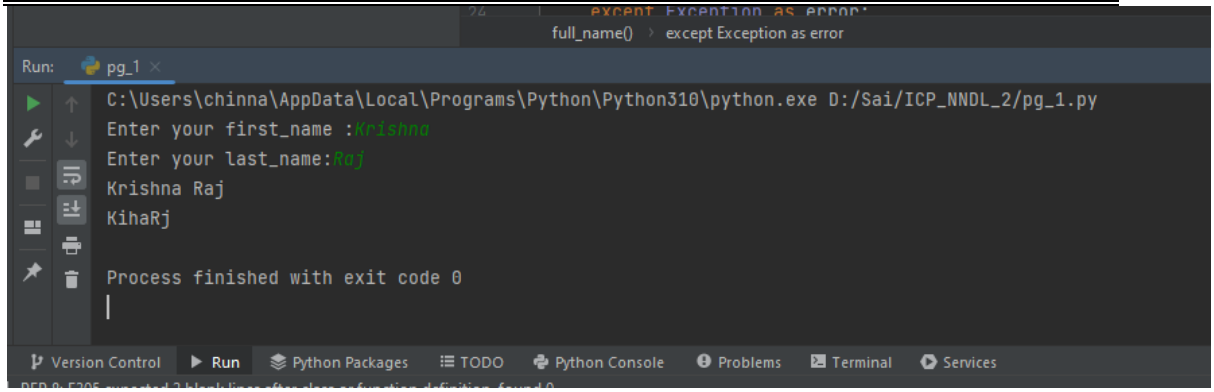
1.Write a program that takes two strings from the user: first_name, last_name. Pass these variables to fullname function that should return the (full name). o

For example: ▪ First_name = “your first name”, last_name = “your last name” ▪ Full_name = “your full name” o
Write function named “string_alternative” that returns every other char in the full_name string. Str = “Good evening” Output: Go vnn

```
def full_name():
    try:
        f_name = str(input("Enter your first_name :"))
        l_name = str(input("Enter your last_name:"))
        if validateString(f_name) and validateString(l_name):
            full_name = f_name + " " + l_name
            print(full_name)
            return full_name
        else:
            print("please enter a valid string")
    except Exception as error:
        print("Error occured {}".format(error))

def validateString(name):

    if name != '' and name is not None and name.isspace() != True and name.isnumeric() != True:
        return True
    else:
        return False
```

```python
def string_alternative(full_name):
    try:
        alt_name = full_name
        print(alt_name[::2])
    except Exception as error:
        print("Error occured {}".format(error))

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

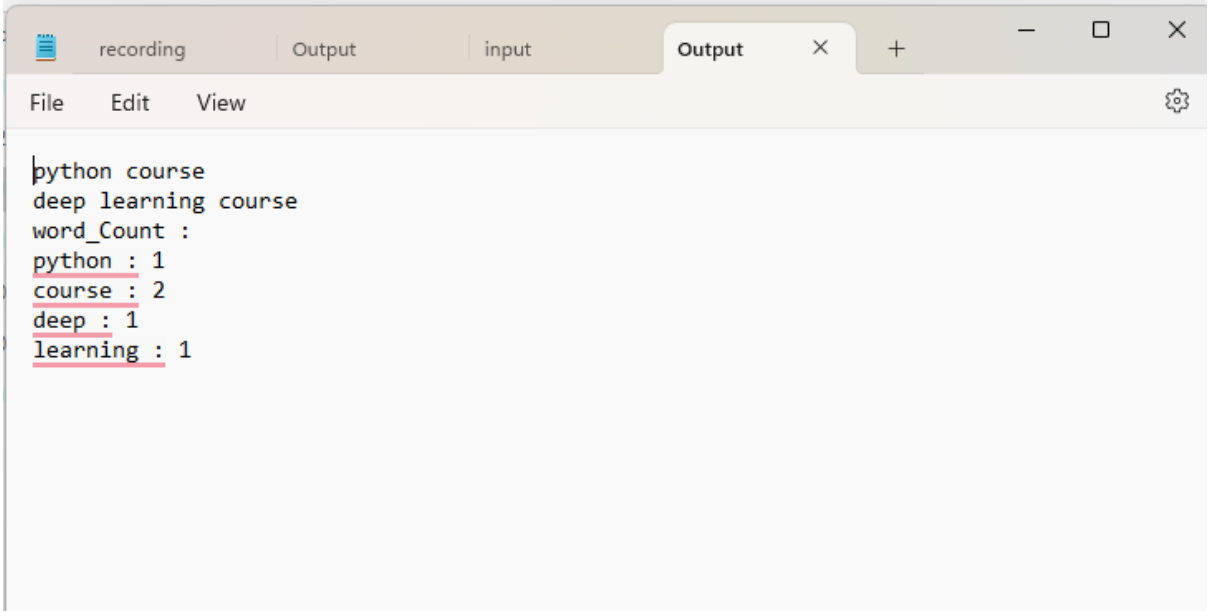
Output



2) Write a python program to find the wordcount in a file (input.txt) for each line and then print the output. o Finally store the output in output.txt file.
Example: Input: a file includes two lines:
Python Course
Deep Learning Course
Output:
Python Course Deep Learning Course
Word_Count:
Python: 1
Course: 2
Deep: 1
Learning: 1

pg_2.py pg_1.py pg_3.py

```
with open('input.txt','r') as input_file:
        a = dict()
        data = []
        for sentence in input_file:
            sentence = sentence.strip()
            sentence = sentence.lower()
            words = sentence.split(" ")
            data.append(sentence)
            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 x in data:
                print(x,file = output_file)
            print("word_Count :",file = output_file)
            for key in list(a.keys()):
                print(key,":",a[key],file = output_file)
```



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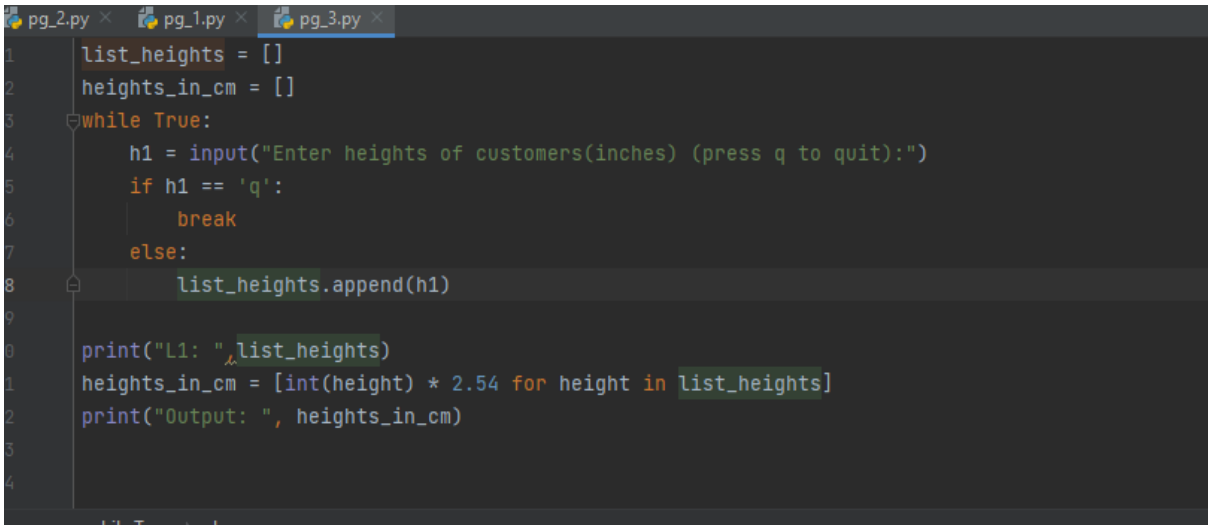
3)Write a program, which reads heights (inches.) of customers into a list and convert these heights to centimeters in a separate list using: 1) Nested Interactive loop. 2) List comprehensions



Output