Spring 2024: CS5720
Neural Networks and Deep Learning - ICP-2
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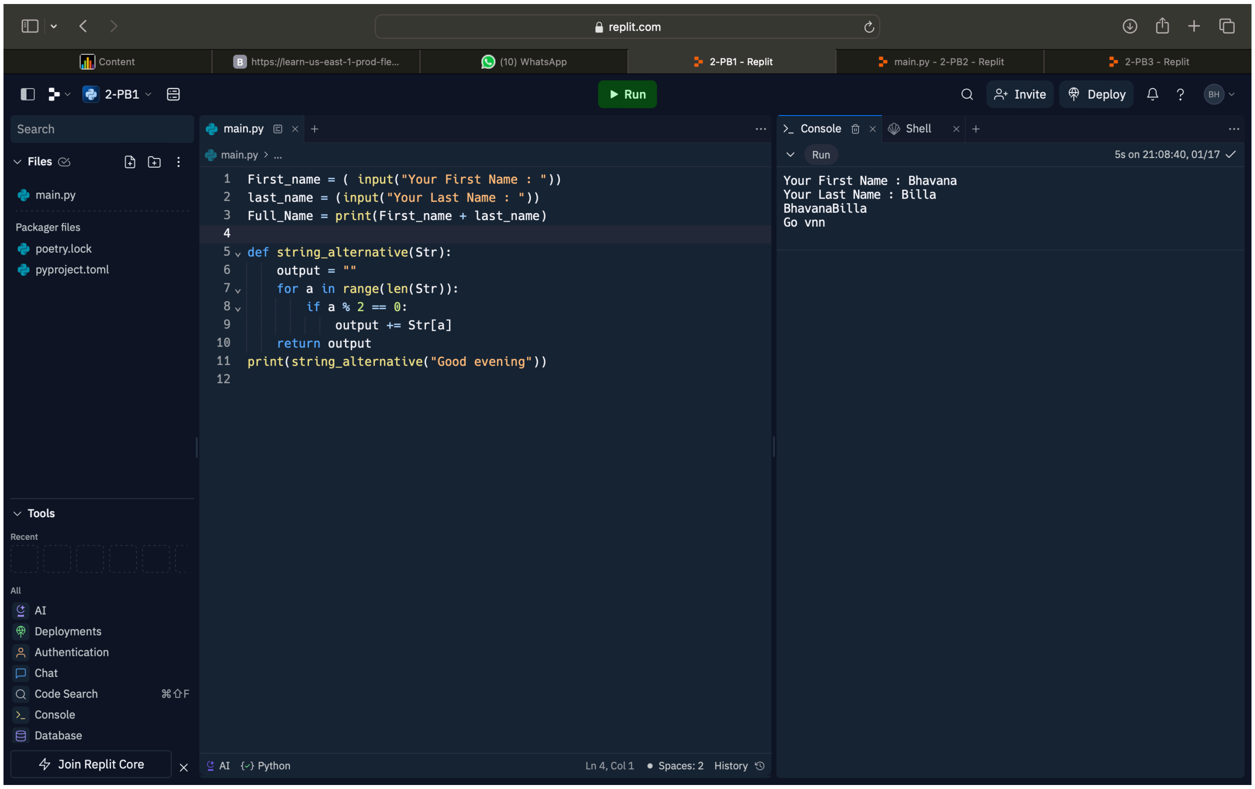
https://github.com/BillaBhavana7/neuralN

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
Note: You need to create a function named “string_alternative” for this program and call it from
main function.

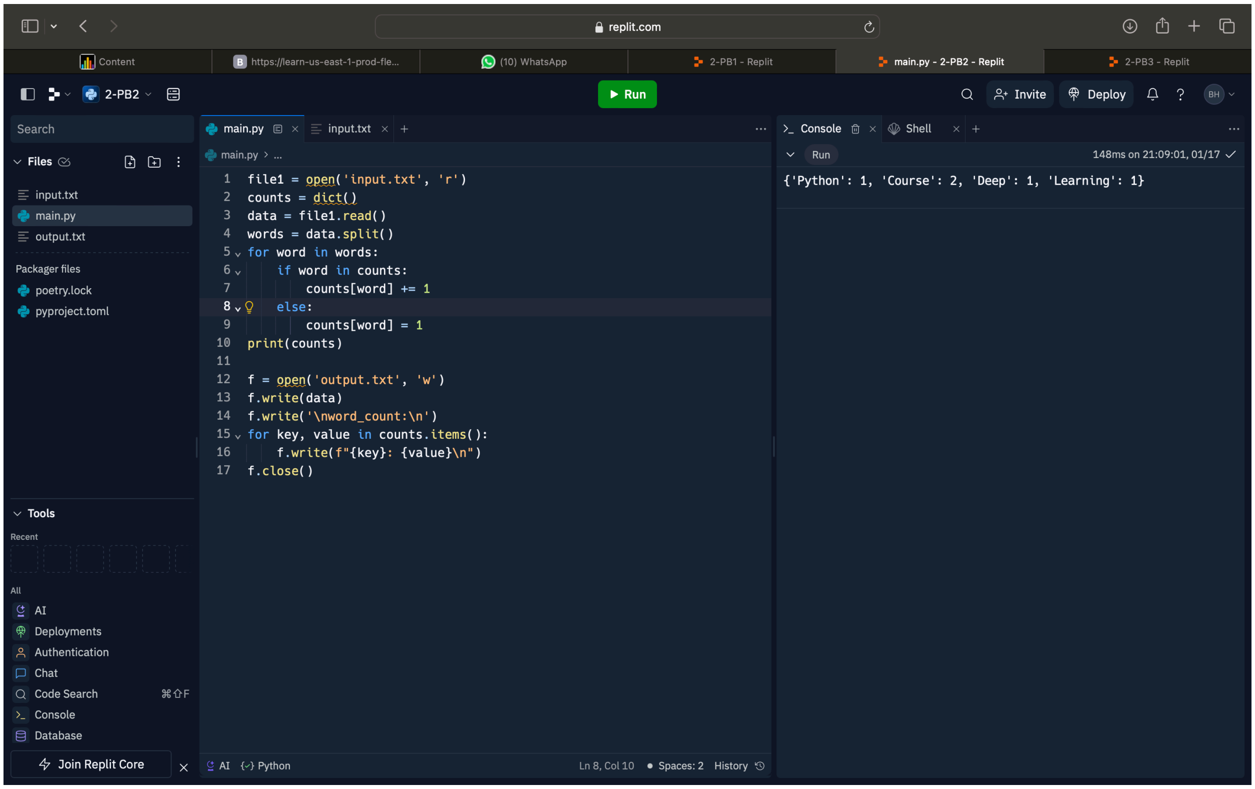


```python
First_name = ( input("Your First Name : "))
last_name = (input("Your Last Name : "))
Full_Name = print(First_name + last_name)

def string_alternative(Str):
    output = ""
    for a in range(len(Str)):
        if a % 2 == 0:
            output += Str[a]
    return output
print(string_alternative("Good evening"))
```

```
Your First Name : Bhavana
Your Last Name : Billa
BhavanaBilla
Go vnn
```

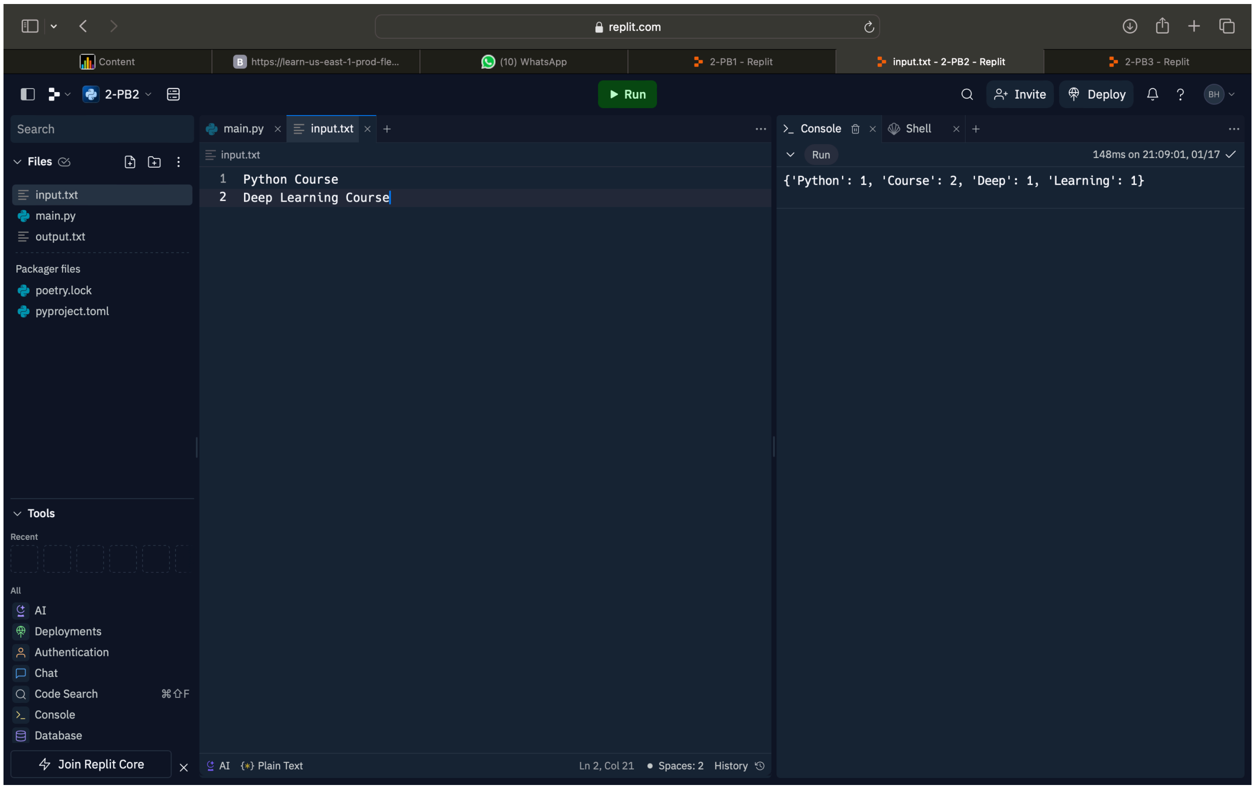
2. Write a python program to find the wordcount in a file (input.txt) for each line and then print the output.
o Finally store the output in output.txt file.
Example:
Input: a file includes two lines:
Python Course
Deep Learning Course
Output:
Python Course
Deep Learning Course
Word_Count
Python: 1
Course: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



```python
file1 = open('input.txt', 'r')
counts = dict()
data = file1.read()
words = data.split()
for word in words:
    if word in counts:
        counts[word] += 1
    else:
        counts[word] = 1
print(counts)

f = open('output.txt', 'w')
f.write(data)
f.write('\nword_count:\n')
for key, value in counts.items():
    f.write(f"{key}: {value}\n")
f.close()
```

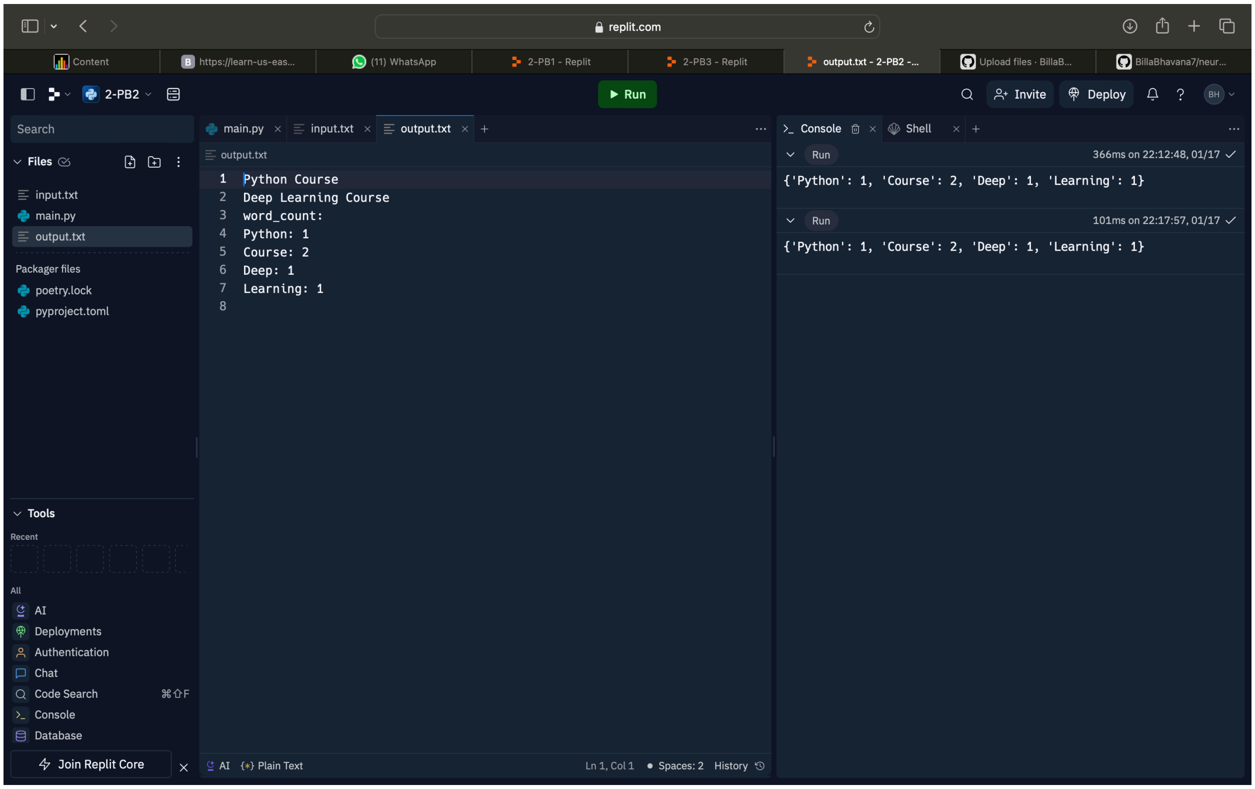
```
{'Python': 1, 'Course': 2, 'Deep': 1, 'Learning': 1}
```



input.txt

```
Python Course
Deep Learning Course
```

```
{'Python': 1, 'Course': 2, 'Deep': 1, 'Learning': 1}
```



output.txt

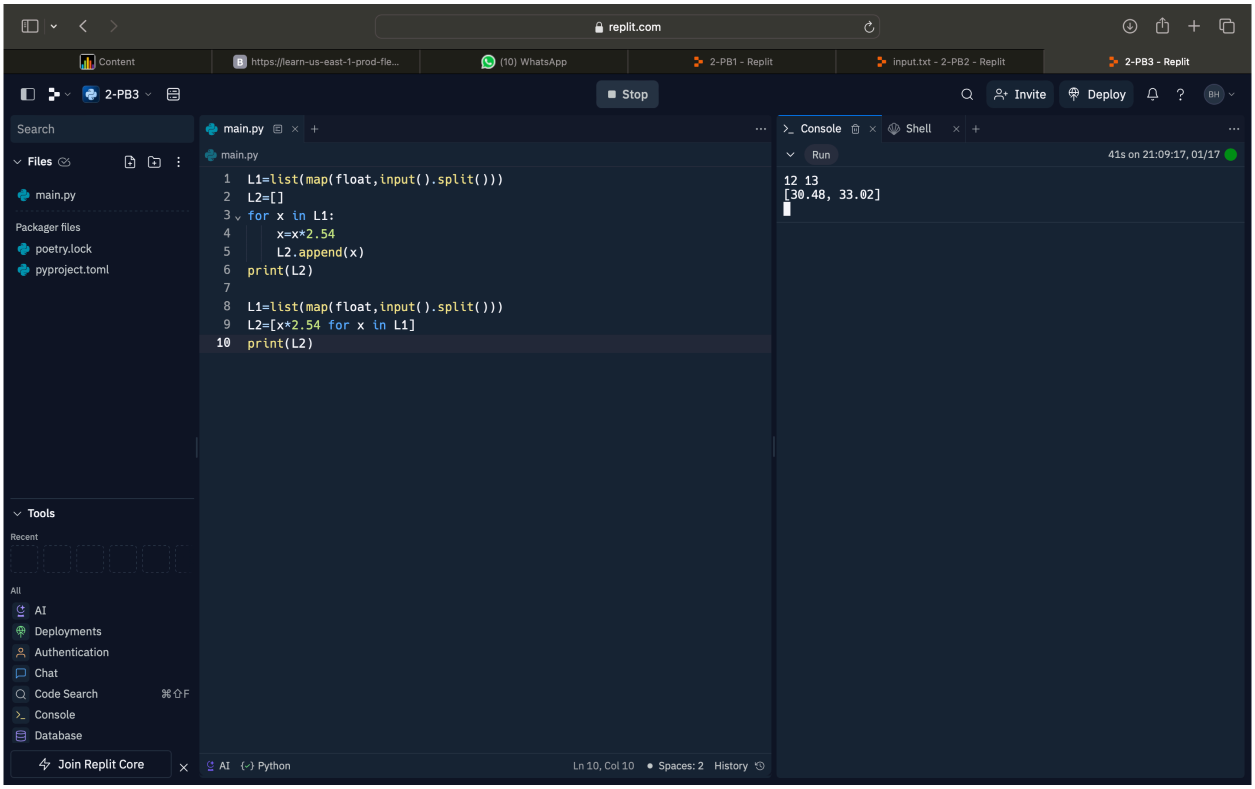
```
Python Course
Deep Learning Course
word_count:
Python: 1
Course: 2
Deep: 1
Learning: 1

```

```
{'Python': 1, 'Course': 2, 'Deep': 1, 'Learning': 1}
```

```
{'Python': 1, 'Course': 2, 'Deep': 1, 'Learning': 1}
```

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
Example: L1: [150,155, 145, 148]
Output: [68.03, 70.3, 65.77, 67.13]



```python
L1=list(map(float,input().split()))
L2=[]
for x in L1:
    x=x*2.54
    L2.append(x)
print(L2)

L1=list(map(float,input().split()))
L2=[x*2.54 for x in L1]
print(L2)
```

```
12 13
[30.48, 33.02]
```