

Spring 2024: CS5720
Neural Networks & Deep Learning - ICP-1
Github link- <https://github.com/BillaBhavana7/neuralN/tree/main>

Note: Code quality (in terms of time and space complexity) is highly valued

1. Write a python program for the following:

– Input the string “Python” as a list of characters from console, delete at least 2 characters, reverse the resultant string and print it.

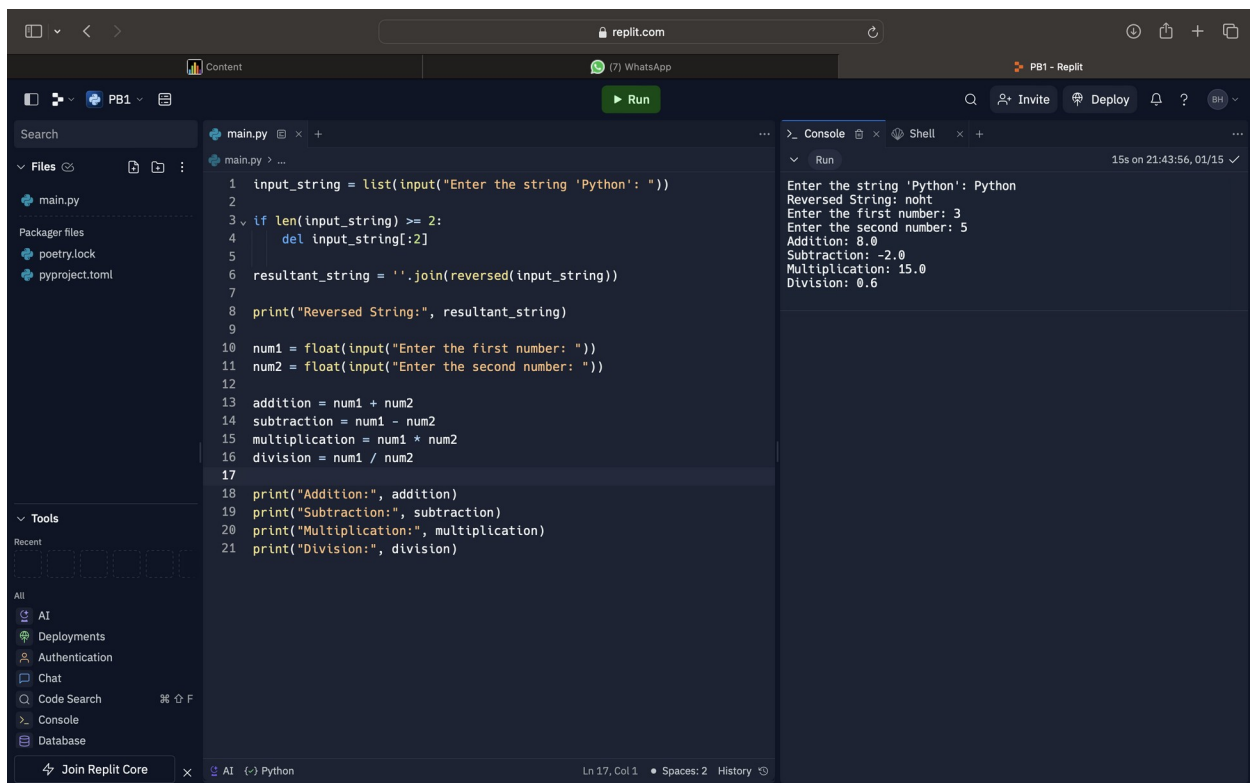
Sample input:

- python

- Sample output:

- ntyp

– Take two numbers from user and perform at least 4 arithmetic operations on them.



```
1 input_string = list(input("Enter the string 'Python': "))
2
3 if len(input_string) >= 2:
4     del input_string[:2]
5
6 resultant_string = ''.join(reversed(input_string))
7
8 print("Reversed String:", resultant_string)
9
10 num1 = float(input("Enter the first number: "))
11 num2 = float(input("Enter the second number: "))
12
13 addition = num1 + num2
14 subtraction = num1 - num2
15 multiplication = num1 * num2
16 division = num1 / num2
17
18 print("Addition:", addition)
19 print("Subtraction:", subtraction)
20 print("Multiplication:", multiplication)
21 print("Division:", division)
```

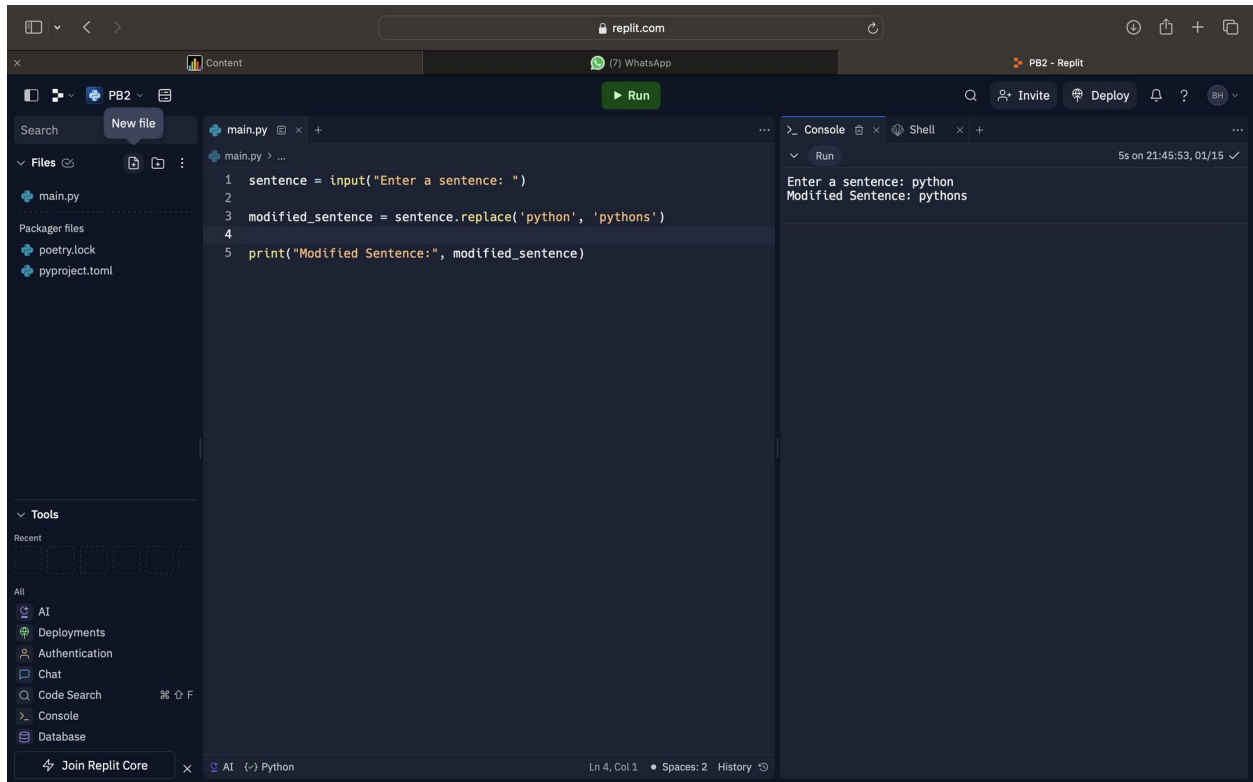
Enter the string 'Python': Python
Reversed String: nont
Enter the first number: 3
Enter the second number: 5
Addition: 8.0
Subtraction: -2.0
Multiplication: 15.0
Division: 0.6

2. Write a program that accepts a sentence and replace each occurrence of 'python' with 'pythons'.

- Sample input:

- I love playing with python

- Sample output:
- I love playing with pythons



The screenshot shows a Replit Python environment. The main editor displays a Python script in `main.py` with the following code:

```
1 sentence = input("Enter a sentence: ")
2
3 modified_sentence = sentence.replace('python', 'pythons')
4
5 print("Modified Sentence:", modified_sentence)
```

The left sidebar shows the file explorer with `main.py` and package files `poetry.lock` and `pyproject.toml`. The bottom left has a 'Tools' panel with options like AI, Deployments, Authentication, Chat, Code Search, Console, and Database. The bottom status bar indicates 'Ln 4, Col 1' and 'Spaces: 2'.

The right sidebar shows the console output for a 'Run' command executed at 21:45:53 on 01/15. The output is:

```
Enter a sentence: python
Modified Sentence: pythons
```

3. Use the if statement conditions to write a program to print the letter grade based on an input class.

Content(7) WhatsAppPB2 - ReplitPB3 - Replit

Run

Search

Files

main.py

Packager files

poetry.lock

pyproject.toml

Tools

Recent

All

AI

Deployments

Authentication

Chat

Code Search

Console

Database

Join Replit Core

main.py

main.py > ...

```
1 class_score = float(input("Enter the class score: "))
2
3 A_score = 90
4 B_score = 80
5 C_score = 70
6 D_score = 60
7
8 if class_score >= A_score:
9     grade = 'A'
10 elif class_score >= B_score:
11     grade = 'B'
12 elif class_score >= C_score:
13     grade = 'C'
14 elif class_score >= D_score:
15     grade = 'D'
16 else:
17     grade = 'F'
18
19 print("Letter Grade:", grade)
```

Console

Run

4s on 21:47:44, 01/15

```
Enter the class score: 65
Letter Grade: D
```

Ln 18, Col 1 • Spaces: 2 History