

# **NEURAL NETWORK DEEP LEARNING**

## **ICP 1 SPRING24 ASSIGNMENT- 1**

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GITHUBLINK:

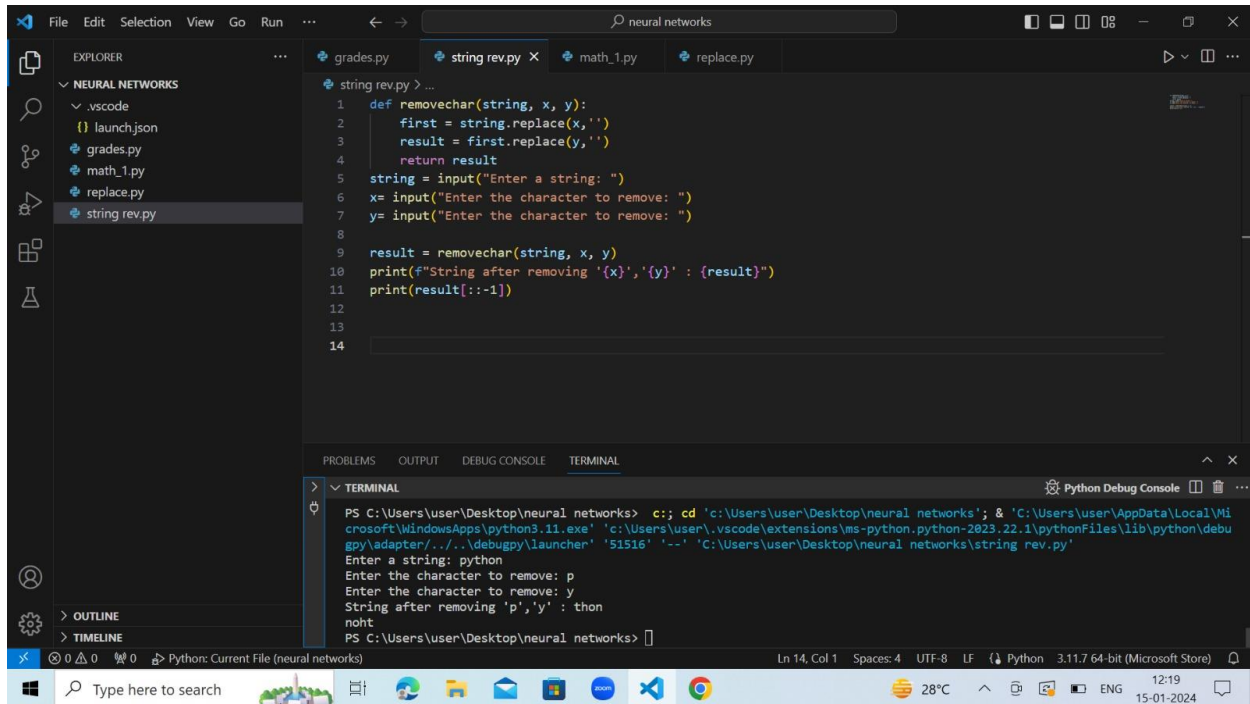
[https://github.com/sanjanamortha28/ICP\\_1\\_Spring24](https://github.com/sanjanamortha28/ICP_1_Spring24)

- 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.

Source code:

```
def removechar(string, x, y):  
    first = string.replace(x,"")  
    result = first.replace(y,"")  
    return result  
  
string = input("Enter a string: ")  
x= input("Enter the character to remove: ")  
y= input("Enter the character to remove: ")  
  
result = removechar(string, x, y)  
print(f'String after removing '{x}','{y}' : {result}')  
print(result[::-1])
```

Output:



The screenshot shows a Visual Studio Code editor window with a file explorer on the left and a terminal at the bottom. The file explorer shows a project named 'neural networks' with files: .vscode, launch.json, grades.py, math\_1.py, replace.py, and string rev.py. The main editor displays the code for 'string rev.py':

```
1 def removechar(string, x, y):
2     first = string.replace(x, '')
3     result = first.replace(y, '')
4     return result
5 string = input("Enter a string: ")
6 x= input("Enter the character to remove: ")
7 y= input("Enter the character to remove: ")
8
9 result = removechar(string, x, y)
10 print(f"String after removing '{x}', '{y}' : {result}")
11 print(result[::-1])
12
13
14
```

The terminal at the bottom shows the command prompt output:

```
PS C:\Users\user\Desktop\neural networks> cd 'c:\Users\user\Desktop\neural networks'; & 'C:\Users\user\AppData\Local\Microsoft\WindowsApps\python3.11.exe' 'c:\Users\user\.vscode\extensions\ms-python.python-2023.22.1\pythonFiles\lib\python\debugpy\adapter\..\..\debugpy\launcher' '51516' '--' 'C:\Users\user\Desktop\neural networks\string rev.py'
Enter a string: python
Enter the character to remove: p
Enter the character to remove: y
String after removing 'p', 'y' : thon
noht
PS C:\Users\user\Desktop\neural networks>
```

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

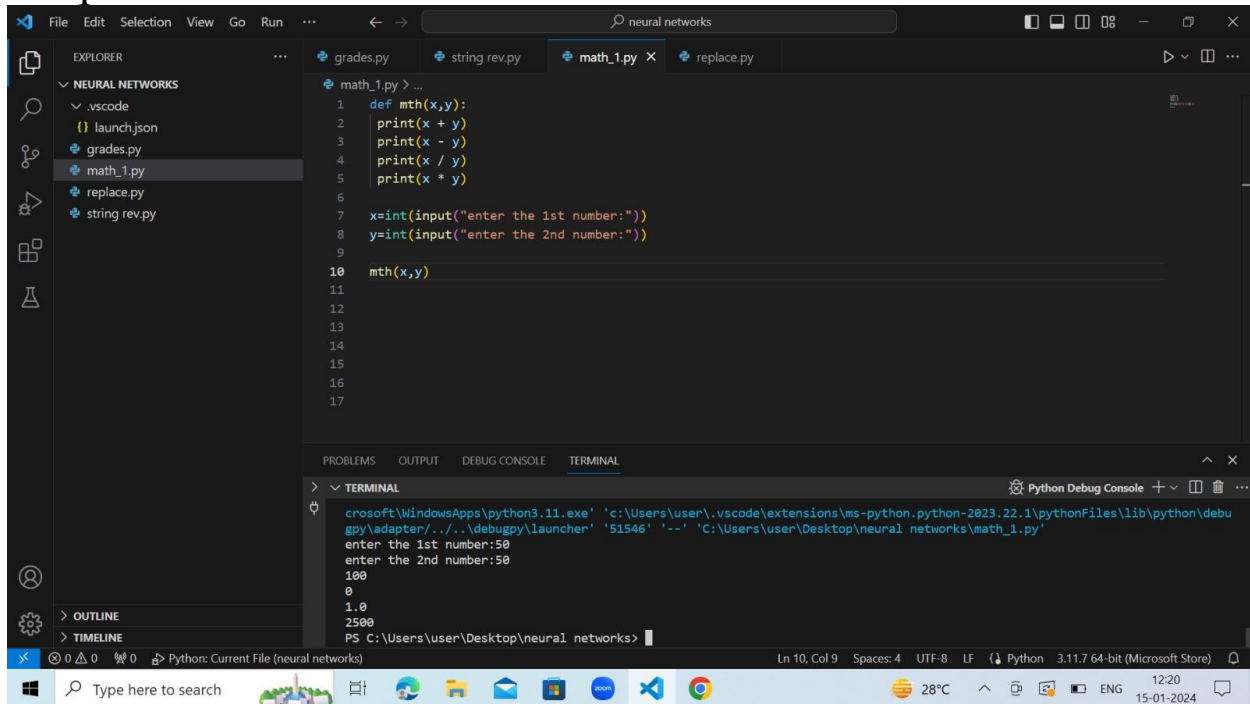
Source code:

```
def mth(x,y):
    print(x + y)
    print(x - y)
    print(x / y)
    print(x * y)
```

```
x=int(input("enter the 1st number:"))
y=int(input("enter the 2nd number:"))
```

`mth(x,y)`

Output:



The screenshot shows a Visual Studio Code window with a file explorer on the left and a code editor in the center. The file explorer shows a project named 'neural networks' with files: launch.json, grades.py, math\_1.py, replace.py, and string rev.py. The code editor shows the content of 'math\_1.py':

```
1 def mth(x,y):
2     print(x + y)
3     print(x - y)
4     print(x / y)
5     print(x * y)
6
7 x=int(input("enter the 1st number:"))
8 y=int(input("enter the 2nd number:"))
9
10 mth(x,y)
11
12
13
14
15
16
17
```

Below the code editor is a terminal window showing the execution of the program:

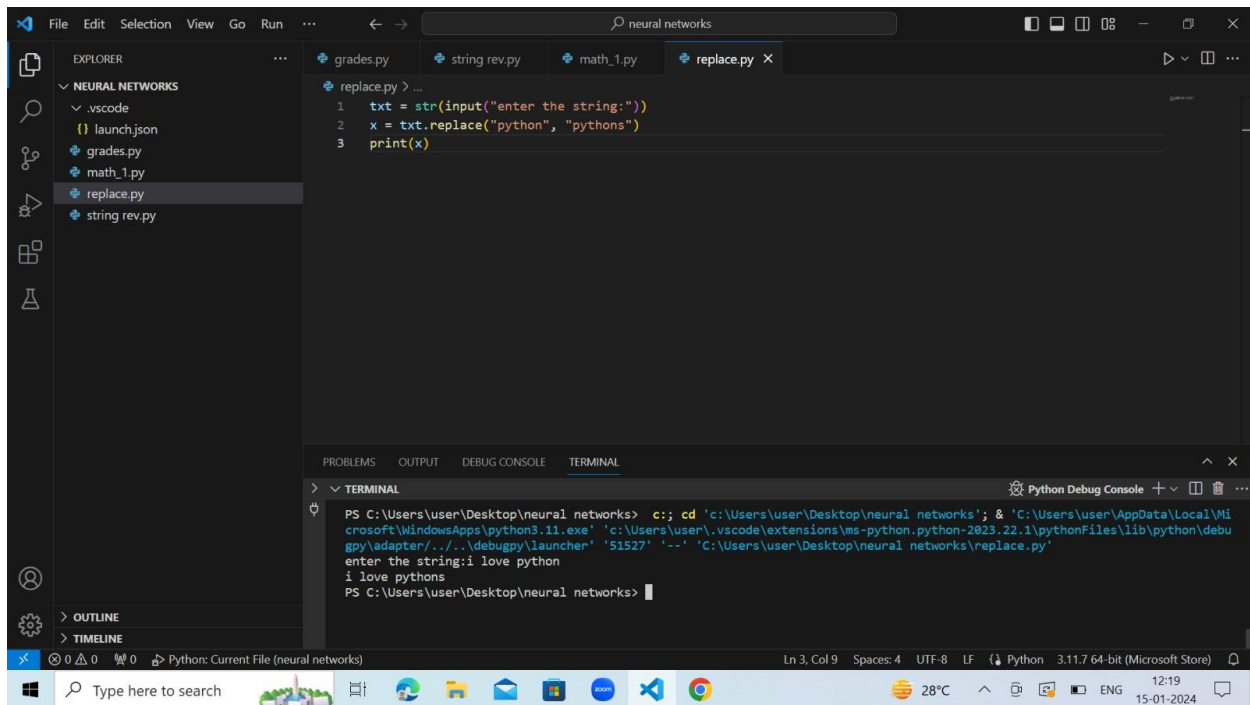
```
> TERMINAL
crossoft\WindowsApps\python3.11.exe 'c:\Users\user\.vscode\extensions\ms-python.python-2023.22.1\pythonFiles\lib\python\debu
gpy\adapter/../../debugpy/launcher' '51546' '--' 'C:\Users\user\Desktop\neural networks\math_1.py'
enter the 1st number:50
enter the 2nd number:50
100
0
1.0
2500
PS C:\Users\user\Desktop\neural networks>
```

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

Source code:

```
txt = str(input("enter the string:"))
x = txt.replace("python", "pythons")
print(x)
```

Output:



3.) Use the if statement conditions to write a program to print the letter grade based on an input class score. Use the grading scheme we are using in this class.

Source code:

```
def student():
    total=float(input("enter the total:"))
    per= float((total/500)*100)
    print(per)
```

```
if(per>=90):
```

```
    print ( " A grade")
```

```
elif(per>=80 and per<90):
```

```
    print( " B grade")

elif(per>=70 and per<80):

    print(" C grade")

elif(per>=60 and per<70):

    print ( " D grade")

else:

    print("failed")

student()
```

Output:

