

Spring 2024 CS5720

Neural Networks & Deep Learning - ICP-1


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Github link : <https://github.com/09sravyareddy/NNDL-ICP1>

Code & Output:

1)



The screenshot displays a Jupyter Notebook titled 'ICP1.ipynb'. The interface includes a top menu bar with options like File, Edit, View, Insert, Runtime, Tools, and Help. Below the menu, there's a toolbar with icons for search, insert, and other functions. The notebook content is divided into two main sections, each with a code cell and its corresponding output.

Section 1:

```
[21] s = list(input("Enter a string: "))
      del s[-2:] # delete last two characters
      s = s[::-1] # reverse the list
      print(''.join(s)) # convert list back to string and print
```

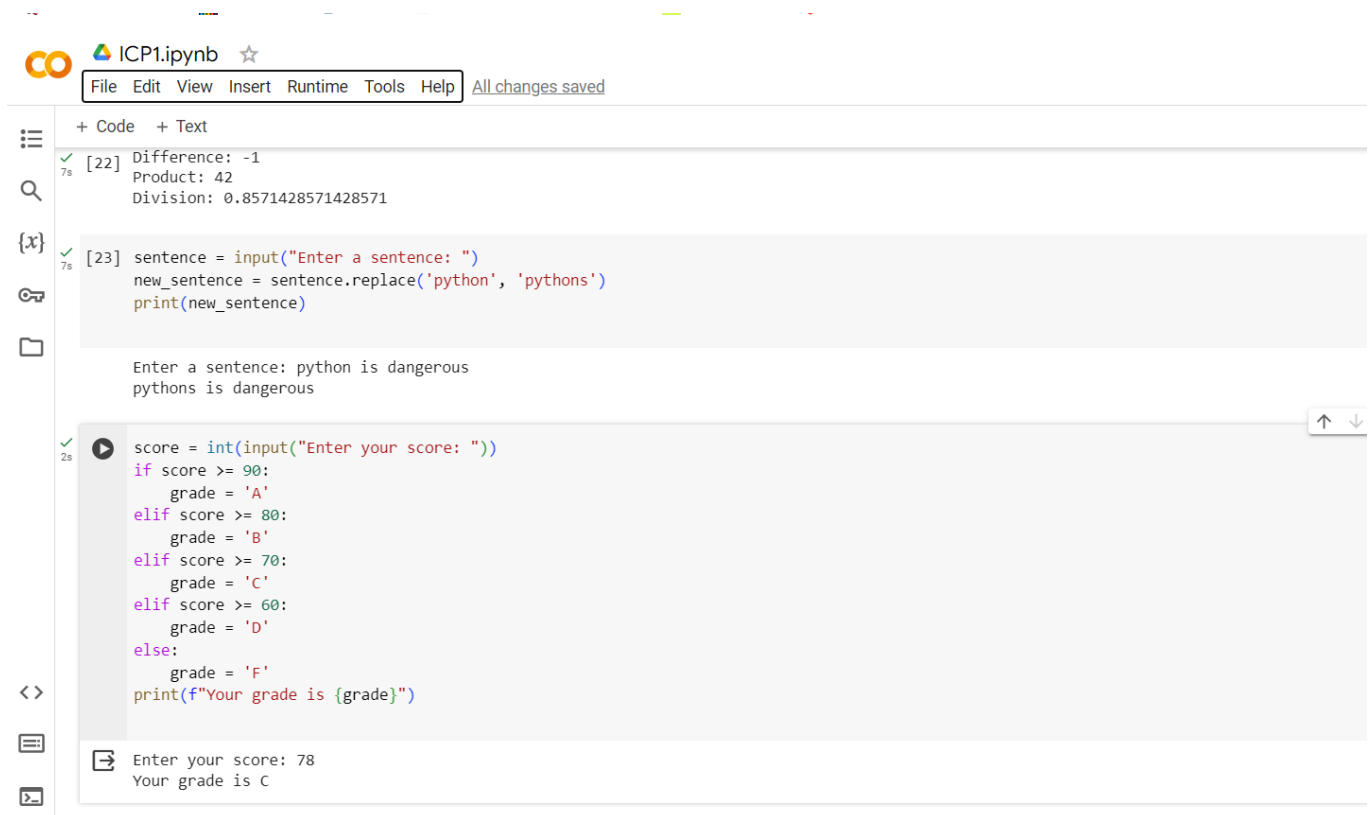
Enter a string: Hamilton
tlimaH

Section 2:

```
[22] num1 = int(input("Enter first number: "))
      num2 = int(input("Enter second number: "))
      print(f"Sum: {num1 + num2}")
      print(f"Difference: {num1 - num2}")
      print(f"Product: {num1 * num2}")
      print(f"Division: {num1 / num2}")
```

Enter first number: 6
Enter second number: 7
Sum: 13
Difference: -1
Product: 42
Division: 0.8571428571428571

2 & 3)



The image shows a JupyterLab interface with a top menu bar (File, Edit, View, Insert, Runtime, Tools, Help) and a status bar (All changes saved). The left sidebar contains icons for a menu, search, variables, keyboard shortcuts, and files. The main area displays two code cells. The first cell, labeled [22], contains arithmetic calculations. The second cell, labeled [23], contains a string replacement operation. Below the second cell, there is a third code cell with a play button icon, containing a grade calculation script. The output of this script is shown at the bottom of the interface.

```
[22] Difference: -1
      Product: 42
      Division: 0.8571428571428571
```

```
[23] sentence = input("Enter a sentence: ")
      new_sentence = sentence.replace('python', 'pythons')
      print(new_sentence)
```

Enter a sentence: python is dangerous
pythons is dangerous

```
score = int(input("Enter your score: "))
if score >= 90:
    grade = 'A'
elif score >= 80:
    grade = 'B'
elif score >= 70:
    grade = 'C'
elif score >= 60:
    grade = 'D'
else:
    grade = 'F'
print(f"Your grade is {grade}")
```

Enter your score: 78
Your grade is C