

Spring 2024: CS5720

Neural Networks & Deep Learning - ICP-1

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GitHub link: https://github.com/kvamsi7/mscs/blob/mscs_nn/CS5720-Neural%20Network%20and%20Deep%20Learning/Assignments/ICP-1/ICP-1.ipynb

1. Write a python program for the following:

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

■ Code snippet:

```
In [1]: input_ = list(input("Enter the String: "))
del input_[-3:-1] # delete the second last and third characters
input_ = "".join(input_) # join all the characters
input_ = input_[::-1] # reverse the string without using functions
print(input_)
```

```
Enter the String: python
ntyp
```

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

■ Code snippet:

```
In [41]: num1 = int(input("Enter integer input 1: "))
num2 = int(input("Enter integer input 2: "))

print("sum:", num1 + num2) #Addition

print("subtraction: ", num2 - num1) #Subtraction

print("modular division: ", num2 % num1) # modular division

print("power: ", num1 ** num2) # power operation
```

```
Enter integer input 1: 2
Enter integer input 2: 5
sum: 7
subtraction: 3
modular division: 1
power: 32
```

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

■ Code snippet:

```
In [46]: input_ = input("Enter the Sentence: ")
input_ = input_.replace("python", "pythons") # replacing all the strings python with string pythons
print(input_)
```

```
Enter the Sentence: i love playing with python
i love playing with pythons
```

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

■ Code snippet:

```
In [4]: score = float(input("Enter the class score: "))
if score >= 0 and score <= 100:
    if score >= 90:
        print("Your grade is 'A'.") # if score is greater than or equal to 90
    elif score >= 80:
        print("Your grade is 'B'.") # if score is greater than or equal to 80
    elif score >= 70:
        print("Your grade is 'C'.") # if score is greater than or equal to 70
    elif score >= 60:
        print("Your grade is 'D'.") # if score is greater than or equal to 60
    else:
        print("Your grade is 'F'.") # if score is Less than 60
else:
    print("Please Enter the correct score which is of range 0 to 100")
```

```
Enter the class score: 99
Your grade is 'A'.
```