Spring 2024: CS5720 Neural Networks & Deep Learning - ICP-1
Assignment-1
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Github Link:https://github.com/VinayGunuguntla/icp1.git
Video Link:
https://drive.google.com/file/d/1B2zQ8mqNaxVZ8AGTI8NH5mlBxjMKMFdy/view?usp=drive_link

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:

```
x = input("Enter the string :")
y =list(x.strip())
print(type(y))
print(y)
y.pop(-3)
y.pop(-3)
print(y)
y.reverse()
x = ''.join(y)
print(x)
```

Output:

```
Enter the string :python
<class 'list'>
['p', 'y', 't', 'h', 'o', 'n']
['p', 'y', 'o', 'n']
noyp
```

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

Code:

```
a = int(input("Enter the first number: ")) # user input1 and typecasting the the entered
b = int(input("Enter the second number: ")) # user input2

#Printing the result for 4 arithmetic operations
print("Division: ",a/b) # simple Division
print("Floor Division: ",a// b) # floor Division
print("Modulus: ", a % b) # Modulus
print("Exponentiation: ",a ** b) # Exponentiation
```

Output:

```
Enter the first number: 8
Enter the second number: 2
Division:  4.0
Floor Division:  4
Modulus:  0
Exponentiation:  64
```

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

Code:

```
# declaring a string variable
s = input("Enter the sentence :")

# replacing string python with pythons
s = s.replace('python', 'pythons')
print("Updated string is : ")
print(s)
```

Output:

```
Enter the sentence :I like to work with python
Updated string is :
I like to work with pythons
```

4. 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 the class.

Code:

```
score = int(input("Enter the score of the person: "))
if score >= 90:
    print("A grade")
elif score >=80:
    print("B grade")
elif score >=70:
    print("C grade")
elif score >= 60:
    print("D grade")
else:
    print("Fail grade")
```

Output:

```
Enter the score of the person: 85
B grade
```