Q1.Find the Armstrong Number between the two numbers which are input by user.

Ans.

lower = int(input("Enter start number: "))

upper = int(input("Enter last number: "))

for num in range(lower,upper + 1):

sum = 0

temp = num

while temp > 0:

digit = temp % 10

sum += digit \*\* 3

temp //= 10

if num == sum:

print(num)

Q2.Let’s say you have a string “hello this world @2020!!! ”

Remove the punctuation like [“@!#$%&\*()”] from the string

Final output should be without the punctuation

“hello this world 2020”.

Ans.

punctuations = '''!()-[]{};:'"\,<>./?@#$%^&\*\_~'''

str = "hello this world @2020!!!"

new= ""

for char in str:

if char not in punctuations:

new= new + char

print(new)

Q3.You have a list with words - [“Apple”, “banana”, “cat”, “REGEX”,”apple”]

Sort words in Alphabetical order.

If you get output, like [Apple, apple, banana]

How has it happened?

Ans.

a = ["Apple", "banana", "cat", "REGEX","apple"]

x = sorted(a , key=str.lower)

print(x)

This will give us output:

['Apple', 'apple', 'banana', 'cat', 'REGEX']

diregarding the capitalization in the list objects by using key function.

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