Rushabh Shah

Dr. Muhammad Zubair Khan

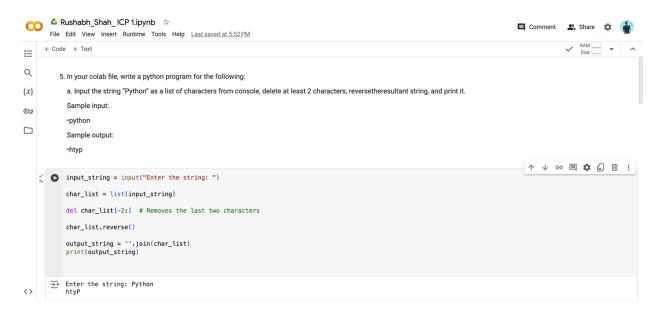
DSA 4620

August 23, 2024

5) Input the string "Python" as a list of characters from console, delete at least 2 characters, reversetheresultant string, and print it.

Sample input: •python

Sample output: •htyp



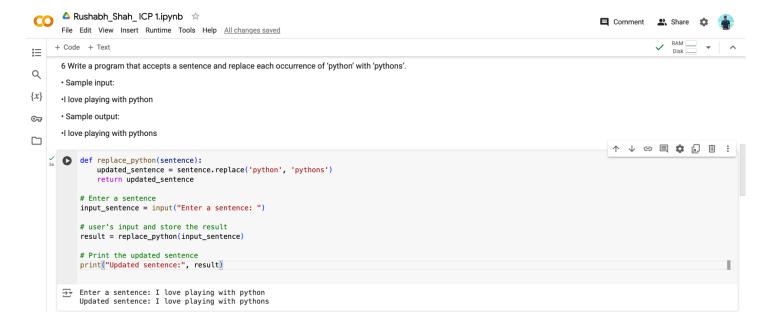
b. Take two numbers from user and perform at least 4 arithmetic operations on them.



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

Sample input:

- •I love playing with python
- Sample output: •I love playing with python



7. 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.



8. Write a code that appends the type of elements from a given list.

Input

x = [23, 'Python', 23.98]

Expected output [23, 'Python', 23.98]

[<class 'int>,<class'str>,<class'float>]



9. IT_companies = {'Facebook', 'Google', 'Microsoft', 'Apple', 'IBM', 'Oracle', 'Amazon'} A = {19, 22, 24,

20, 25, 26} B = {19, 22, 20, 25, 26, 24, 28, 27} age = [22, 19, 24, 25, 26, 24, 25, 24]

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Rushabh_Shah_ICP 1.ipynb 🜣
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             File Edit View Insert Runtime Tools Help All changes saved
∷
                                                                                                                                                                                                                                                                                                                                IT_companies = {'Facebook', 'Google', 'Microsoft', 'Apple', 'IBM', 'Oracle', 'Amazon'}
A = (19, 22, 24, 20, 25, 26)
B = (19, 22, 20, 25, 26, 24, 28, 27)
age = [22, 19, 24, 25, 26, 24, 25, 24]
Q
\{x\}
                  print("Length of IT_companies:", len(IT_companies))
⊙
                 IT_companies.add('Twitter')
print("After adding Twitter:", IT_companies)
IT_companies.update(['Samsung', 'Intel', 'Cisco'])
print("After adding more companies:", IT_companies)
                   IT_companies.remove('Oracle')
print("After removing Oracle:", IT_companies)
                   print("A union B:", A | B)
                    print("A intersection B:", A & B)
                    print("Is A a subset of B:". A <= B)
                    print("Are A and B disjoint:", A.isdisjoint(B))
                    print("Symmetric difference:", A ^ B)
                    age_set = set(age)
print("Length of age list:", len(age))
print("Length of age set:", len(age_set))
           Length of II_companies: 7

After adding Twitter: {'Amazon', 'Facebook', 'IBM', 'Google', 'Twitter', 'Oracle', 'Apple', 'Microsoft'}

After adding nore companies: {'Amazon', 'Twitter', 'Facebook', 'IBM', 'Microsoft', 'Intel', 'Google', 'Oracle', 'Samsung', 'Apple'}

After removing Oracle: {'Amazon', 'Twitter', 'Facebook', 'Cisco', 'IBM', 'Microsoft', 'Intel', 'Google', 'Samsung', 'Apple'}

A union B: (19, 20, 22, 24, 25, 26, 27, 28)

A intersection B: (19, 20, 22, 24, 25, 26)

Is A a subset of B: True

Are A and B disjoint: False

Symmetric difference: (27, 28)

Length of age list: 8

Length of age list: 8
<>
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