GLS UNIVERSITY
Faculty of Computer Applications & IT
Integrated MCA

221601506 Practicals on Python

Practical Assignment Unit – 2 (Part 2)
(15th July, 2024 to 20th July, 2024)

1. Create a list of your five favorite fruits. And perform following menu based operations :
    1. Add a new fruit to the list.
    2. Remove a fruit from the list.
    3. Print the first and last fruit in the list.
    4. Sort the list in alphabetical order.

2. Create a list of numbers from 1 to 10.
    1. Print the first three numbers.
    2. Print the last three numbers.
    3. Print every other number in the list.
    4. Reverse the list.

3. Create two lists: one of even numbers and one of odd numbers.
    1. Print both the lists.
    2. Concatenate the two lists.
    3. Use the extend method to add the elements of the second list to the first list.
    4. Sort the combined list.

4. Create a list of 25 numbers. Take input from user.
    1. Display the numbers greater than 10.
    2. Display the numbers that are even.
    3. Display the numbers that are odd.
    4. Display the numbers that are positive.
    5. Display the numbers that are negetive.

5. Create a list of 5 fruits. Perform following menu based operations.
    1. Take name of one fruit and index from user. Insert new fruit and the given index.
    2. Take name of one fruit and index from user. Remove new fruit and the given index.
    3. Remove last element from the list

6. Create a tuple with your five favorite fruits.
    1. Access and print the first and last items in the tuple.
    2. Attempt to add a new food to the tuple and observe what happens.
    3. Convert the tuple to a list, add a new fruit, and convert it back to a tuple.

7. Create a tuple with 10 elements. Write a menu based program to perform following operations:
    1. Find sum of all elements of tuple.
    2. find average of all elements of tuple.
    3. Sort the tuple
    4. find biggest element of the tuple
    5. find smallest element of the tuple

8. Create two tuples. Concatenate them in new tuple and display the same.

9. Create a tuple of list of 10 citites. Ask user to enter a city name and check if that city exists in the tuple or not. Also display how many times that city is there in tuple.

10. Create a tuple of 10 integers. Take startindex and endindex from user. Display tuple elements between those indexes only

11. Create a dictionary that stores list of courses and no of students enroled as key and values respectively. Take name of course from user and display no of students enroled in that course.

12. Create a dictionary that stores list of courses and no of students enroled as key and values respectively and perform following menu based tasks:
    1. display only keys
    2. display only values
    3. display both keys and values

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