PCET's Pimpri Chinchwad University	Pimpri Chinchwad Education Trust's **Pimpri Chinchwad University** **Sate Maval, Pune**	**Record No.: ….** **Revision: ….** **Date:**

Python Programming LAB Sessions

School of Engineering & Technology (SOET)

Name of the Program:	**MCA**	**Semester : I**	**Level: PG**
Course Name	**Python Programming Lab**	**Course Code and Course Type**	**PMC102 / MAJM**
Course Pattern	**2024**	**Version**	1.0

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LAB-3

***Instructions:**

1. ***Make the programs user-friendly in script mode by displaying clear instructions and messages for the user on the output screen. As a developer, add comments wherever necessary.***
2. ***Save each program in a folder with your name.***
3. ***Keep a copy of the output for each program for future reference.***

1. **WAP to perform the following operations on a string:**
   a. Count the occurrence of a specific character in the string.
   b. Convert the string to uppercase and lowercase.
   c. Replace a word in the string with another word.
2. **WAP to demonstrate the following operations on a list:**
   a. Perform list slicing and display a portion of the list.
   b. Append and insert elements into the list.
   c. Remove an element from the list.
   d. Sort the list and then reverse it.
   e. Pop an element from the list and display the remaining elements.
3. **WAP to perform the following operations on a tuple:**
   a. Access elements of a tuple using indexing.
   b. Slice a tuple and display the sliced portion.
   c. Concatenate two tuples and display the result.
   d. Count the occurrence of a specific element in a tuple.
   e. Check if an element exists in the tuple.
4. **WAP to perform the following operations on a dictionary:**
   a. Create a dictionary, update a value, and add a new key-value pair.
   b. Delete a key-value pair from the dictionary.
   c. Display all keys, values, and items from the dictionary.
   d. Find the average value of the numeric values stored in the dictionary.
   e. Check if a key exists in the dictionary and display its value.

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