

Department of MCA

Session 2025-26 (ODD SEM)

Assignment- II

Subject Name: Python Programming

Subject Code: BMC-301

Date of Assignment: 29-09-2025

Date of Submission: 04-10-2025

Faculty Name: Dr Bishwajeet Pandey

Sem: III

Sec: ALL

Q. No.	Questions	CO/ KL	Competitive/Univ.
I	What is the difference between for and while loop in Python? Illustrate with examples.	(BMC301.2, K3)	
II	Illustrate Unpacking tuples, mutable sequences, and string concatenation with Examples.	(BMC301.2, K3)	
III	What is the purpose of else with loops in Python? Write a program to demonstrate else with for loop.	(BMC301.2, K3)	
IV	Write a Python program using while loop to print numbers from 1 to 5, but terminate the loop when the number reaches 3.	(BMC301.2, K2)	
V	<p>Q. 23 Consider the following Python declarations of two lists.</p> <pre>A=[1, 2, 3] B=[4, 5, 6]</pre> <p>Which one of the following statements results in A= [1, 2, 3, 4, 5, 6]?</p> <p>(A) A.extend(B)</p> <p>(B) A.append(B)</p> <p>(C) A.update(B)</p> <p>(D) A.insert(B)</p>	(BMC301.2, K2)	GATE 2025
VI	<p>Illustrate different list slicing constructs for the following operations on the following list: L = [1, 2, 3, 4, 5, 6, 7, 8, 9]</p> <ol style="list-style-type: none"> Return a list of numbers starting from the last to second item of the list Return a list that start from 3rd item to second last item. Return a list that has only even position elements of list L to list M. Return a list that starts from the middle of the list L. Return a list that reverses all the elements starting from element at index 0 to middle index only and return the entire list. <p>Divide each element of the list by 2 and replace it with the remainder.</p>	(BMC301.2, K3)	

VII	<p>Text="Dr. Bishwajeet Kumar Pandey"</p> <p>How can we do following tasks in Python if we have a string variable Text pre assigned with a value "Dr. Bishwajeet Kumar Pandey"?</p> <ol style="list-style-type: none"> 1. Print the last character 2. Print the first character 3. Reverse the String Text 	(BMC301.2, K1)	
VIII	<p>Q. 47 Consider the following Python code snippet.</p> <pre> A={"this", "that"} B={"that", "other"} C={"other", "this"} while "other" in C: if "this" in A: A, B, C=A-B, B-C, C-A if "that" in B: A, B, C=C A, A B, B C </pre> <p>When the above program is executed, at the end, which of the following sets contains "this"?</p> <p>(A) Only A</p> <p>(B) Only B</p> <p>(C) Only C</p> <p>(D) A, C</p>	(BMC301.2, K3)	GATE 2025