

# **BACHELOR OF COMPUTER APPLICATIONS (BCA)**

## **(Revised Syllabus)**

BCA(Revised Syllabus)/ASSIGN/SEMESTER-II

### **ASSIGNMENTS**

**(July - 2025 & January – 2026 sessions)**

**ECO-02, MCS-011, MCS-012, MCS-015, MCS-013, BCSL-021, BCSL-022**



**SCHOOL OF COMPUTER AND INFORMATION SCIENCES  
INDIRA GANDHI NATIONAL OPEN UNIVERSITY  
MAIDAN GARHI, NEW DELHI – 110 068**

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### Important Notes

1. Submit your assignments to the Coordinator of your Study Centre on or before the due date.
2. Assignment submission before due dates is compulsory to become eligible for appearing in corresponding Term End Examinations. For further details, please refer to BCA Programme Guide.
3. To become eligible for appearing the Term End Practical Examination for the lab courses, it is essential to fulfill the minimum attendance requirements as well as submission of assignments (on or before the due date). For further details, please refer to the BCA Programme Guide.

<b>Course Code</b>	<b>:</b>	<b>BCSL-022</b>
<b>Course Title</b>	<b>:</b>	<b>Assembly Language Programming Lab</b>
<b>Assignment Number</b>	<b>:</b>	<b>BCA(II)/L-022/Assignment/2025-26</b>
<b>Maximum Marks</b>	<b>:</b>	<b>50</b>
<b>Weightage</b>	<b>:</b>	<b>25%</b>
<b>Last Dates for Submission</b>	<b>:</b>	<b>31<sup>st</sup> October, 2025 (For July Session)</b> <b>30<sup>th</sup> April, 2026 (For January Session)</b>

**This assignment has five questions of total of 40 marks, each question carries equal marks. Rest 10 marks are for viva voce. Please go through the guidelines regarding assignments given in the programme guide for the format of presentation.**

- Q1.** Write and run a program using 8086 assembly language that interchanges the values stored in two memory locations. Make suitable assumptions, if any.
- Q2.** Write and run a program using 8086 assembly language that calculates the sum and difference of two values stored in the memory locations.
- Q3.** Write and run a program using 8086 assembly language that multiplies the elements of an array of size 4 stored in the memory locations. The result of the multiplication is left in the registers.
- Q4.** Write and run a program using 8086 assembly language that prints the ASCII character for a 8-bit value stored in BL register.
- Q5.** Write and run a program using 8086 assembly language that checks if any of the values in an array of size 5 is zero. In case a zero value is found, the index of that array location is moved to DL register, otherwise DL register is cleared.