

BACHELOR OF COMPUTER APPLICATIONS (BCA_NEWOL)

BCA_NEWOL /ASSIGN/SEMESTER-IV

ASSIGNMENTS

(January - 2026 & July - 2026)

MCS-206, BCSL-146, BCS-053, BCSL-147, BCS-041, BCOC-131,



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 through the Learning Management System (LMS) 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_NEWOL 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_NEWOL Programme Guide.

Course Code : **BCSL-146**
Course Title : **Object Oriented Programming using Java Lab**
Assignment Number : **BCA_NEWOL(IV)/L-146/Assignment/2026**
Maximum Marks : **50**
Weightage : **25%**
Last Dates for Submission : **30th April, 2026 (for January session)**
31th October, 2026 (for July session)

Note: This assignment is of 50 marks. 40 marks are for the assignment questions and rest 10 marks are for viva voce. As solution of assignment questions write the Java program and attach its output printout.

Question 1: Write a program to demonstrate use of different operators in Java. **(5 Marks)**

Question 2: Write java programs to demonstrate use of abstract class and interface. Make necessary assumptions. **(8 Marks)**

Question 3: Write a java program to demonstrate use of thread priority and how interthread communications take place. **(7 Marks)**

Question 4: Write java program to demonstrate useJavaFX in GUI development. **(5 Marks)**

Question 5: Write a program using JDBC for developing simple CRUD application for billing of a Medical Store. Use appropriate GUI components in your application. Make necessary assumptions. **(15 Marks)**