

BACHELOR OF COMPUTER APPLICATIONS (BCA)

(Revised Syllabus)

BCA(Revised Syllabus)/ASSIGN/SEMESTER-I

ASSIGNMENTS

(July - 2026 & January - 2027)

FEG-02, ECO-01, BCS-011, BCS-012, BCSL-013



**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.

Course Code	:	BCSL-013
Course Title	:	Computer Basics and PC Software Lab
Assignment Number	:	BCA(I)/L-013/Assignment/2026-27
Maximum Marks	:	100
Last date of Submission	:	31st October, 2026 (For July 2026 Session)
	:	30th April, 2027 (For January 2027 Session)

This assignment has five questions of 80 marks. Answer all the questions. Rest 20 marks are for viva voce. You may use illustrations and diagrams to enhance explanations. Please go through the guidelines regarding assignments given in the Programme Guide for the format of the presentation. Make suitable assumptions, if necessary.

Q1: Answer the following in the context of the Linux Operating System. You must write all the commands that you have used for answering the questions. Also, attach printout OR a file (may be in pdf format) containing the screenshots of the output.

a) Write and run the following Linux commands and attach the screenshots of the output of each commands **(10 Marks)**

- i) history
- ii) info
- iii) cp
- iv) who
- v) cmp
- vi) cat
- vii) more
- viii) wc
- ix) mkdir
- x) grep

b) Create a text file in Linux containing two paragraphs that outline the advantages of the Linux operating system. Make a copy of this file named “assignment.txt”. Count how many times the word “the” appeared in this file. Display the file permissions of the file “assignment.txt”. Now, change the file permissions of this file to r--r--r--.

(6 Marks)

Q2: Create a presentation using any Presentation software on the topic “Advantages and Disadvantages of Using AI” (minimum 8 slides). The slides should have the following features:

(16 Marks)

- (i) All slides should use a common design template.
- (ii) Add an audio file to any one slide. Also, add a video file to any one slide that should run in full-screen mode.
- (iii) All the slides should have timer-based transition.
- (iv) All the slides should have proper headings and slide notes.

(v) Each slide should have one image related to the topic.

Write the sequence of steps that you have performed to create these slides. Also attach printout OR a file (may be in pdf format) containing the handout of all the slides (4 slides per page).

Q3: a) Use a Word Processor to create a document about the “Use of AI in Learning” of about 2 pages. It should include the following: **(6 Marks)**

- i) multi-level list highlighting the features and their details that can be used in learning processes.
- ii) a table consisting of the Tool and its use in learning.
- iii) a paragraph about the “Learning without AI tools”.

b) Design a flyer on the topic “Learning Through Open University System”. Use different styles, sizes, fonts, colours and effects. **(10 Marks)**

Write the sequence of steps that you have performed to create the document and flyer. Also attach a printout OR a file (may be in pdf format) containing document and flyer.

Q4: Create a worksheet containing the mark list of the students of a class in the following table: **(16 Marks)**

Student Name	Marks in Hindi out of 200	Marks in Maths out of 200	Marks in Finance out of 400	Total (out of 800) (T)	Percentage of Marks (P)	Division (D)
Arvind	150	150	300			
Ajay	165	145	320			
Rehman	160	136	250			
Roger	145	149	190			
Samay	135	154	250			
Baljeet	130	165	350			

You must enter all the labels and details as given above. You may use the following formulae for division:

If Percentage (P) of marks ≥ 75 display 1st with Distinction

If $P \geq 60$ and < 75 display 1st Division

If $P \geq 50$ and < 60 display 2nd Division

If $P \geq 35$ and < 50 display 3rd Division

ELSE display Fail.

Write the sequence of steps that you have performed to create the formulae in different cells. Also, attach printout OR a file (may be in pdf format) containing the worksheet.

Q5: Use MS Outlook or any other email software to perform the following tasks: **(16 Marks)**

- a)** Create a weekly meeting schedule for a group of 4 friends on the agenda “Group Study Schedule”. This weekly meeting should be scheduled for three consecutive weeks.
- b)** Write an email to your friends (at least 4) inviting them to attend the group study. You should create your Signature and add it to the email message.
- c)** Create a message that should be sent to your friends inviting them to a discussion on the future of computing.
- d)** You are receiving junk mail from an email account. Configure your mail account to delete all emails automatically from any junk mail account.

Make and state suitable assumption, if any.

Write the sequence of steps that you have performed in different parts of this question. Also attach printout OR a file (may be in pdf format) containing the screen shots of the output.