



UTTARAKHAND OPEN UNIVERSITY, HALDWANI (NAINITAL)  
उत्तराखण्ड मुक्त विश्वविद्यालय, हल्द्वानी (नैनीताल)

BCA-16/BCA-17 1<sup>ST</sup> YEAR 1<sup>ST</sup> SEMESTER  
ASSIGNMENT

*Session - 2017-18, Summer Last Date of Submission: 31st October 2017*  
*Session - 2017-18, Winter Last Date of Submission: 30th April 2018*

**Course Title:** Introduction to Computer Programming Using C

**Course Code:** BCA-02

**Maximum Marks:** 30/20

Section 'A' contains 08 short answer type questions of 4/2.5 marks each. Learners are required to answers 4 questions only. Answers of short answer-type questions must be restricted to 250 words approximately.

1. Write and explain control statement used in C program?
2. Write a Program in C to find out that a particular number is palindrome number or not.
3. What is Pseudo code? What are the similarity between pseudo code and program?
4. Define keywords and variable in 'C' with example.
5. What is meant by static, external and register variables? Explain.
6. What is the difference between macro and preprocessor directives?
7. What is the difference between **while** and **do-while**?
8. What is the use of **void main()** function?

Section 'B' contains 04 long answer-type questions of 7/5 marks each. Learners are required to answers 02 questions only.

1. What is recursion? What are the uses of recursion? Write a C program to generate a Fibonacci sequence up to 15 numbers using recursion?
2. What are Pointers? Write a Program to add two numbers using call by reference. What is the advantage of call by reference over call by value?
3. What is an operator? Explain the arithmetic, relational, logical, and assignment operators with the help of an example in C language.
4. Explain the different types of loops in C with syntax and example.