

# University of Central Punjab

Faculty of CS and IT



**Course Code:** CSCP2033  
**Assessment Tool:** Assignment  
**Teacher:** Rabia Arshad  
**Submission Date:** 14<sup>th</sup> June, 2023

**Course Title:** Data Structures & Algorithms  
**Term:** Spring 2023  
**Date of Assignment:** 08<sup>th</sup> June, 2023  
**Section:** D11

## Instructions:

- Submission after the mentioned date will not be accepted. Only portal generated submissions will be accepted.
- You must upload a folder containing your code file, screen shot of run time, as well as text file (notepad) of code.
- Please submit a word document which contains the details of you group members.
- For further queries you can contact at [rabia.arshad@ucp.edu.pk](mailto:rabia.arshad@ucp.edu.pk)

## **Question 1:**

Develop a program in C++ to perform following operations:

1. Insertion in a BST
2. Search a given key in BST
3. Deletion from BST
4. Find in-order successors for the given key in a BST
5. Print the whole BST in pre-order

## **Note:**

- *Your program must be in running condition. Otherwise, it will not be marked*
- *Plagiarism will lead to overall rejection of assignment and zero will be awarded to the whole group*
- *A viva will be conducted after submission. 50% weightage of viva and 50% of submitted code will be considered*

