C++ Programming Assignment 5

# Question 1:

Write a C++ program to demonstrate the use of Structures. Create a structure to store information about a student, such as name, age, and grade. Then, initialize and display the information of at least two students.

## Clarifications:

1. Create a structure to hold the student's details.  
2. Define variables to store the student's name, age, and grade.  
3. Create instances of the structure to hold the information for at least two students.  
4. Output the details of the students.

## Expected Output:

Student 1:  
Name: John Doe  
Age: 20  
Grade: A  
  
Student 2:  
Name: Jane Smith  
Age: 22  
Grade: B

# Question 2:

Write a C++ program to find the reverse of a number using a class. Create a class with a member function to reverse a number entered by the user.

## Clarifications:

1. Define a class with a member function that will reverse the number.  
2. The program should take an integer input from the user.  
3. Display the reversed number.

## Expected Output:

Enter a number: 12345  
The reverse of the number is: 54321

# Question 3:

Write a C++ program to find the factorial of a number using a class. Create a class with a member function that calculates the factorial of a given number.

## Clarifications:

1. Define a class with a member function that calculates the factorial of a given number.  
2. The program should take a number input from the user.  
3. The function should return the factorial of the number.

## Expected Output:

Enter a number: 5  
The factorial of 5 is: 120

**Submission Guidelines:**

1. Create a folder on your Google Drive for the assignment.
2. Take full-screen screenshots of each task, including both the complete code and the executed output from your system's IDE (online compiler screenshots are not valid).
3. Do not crop or edit the screenshots in any way to maintain clarity.
4. Upload the full-screen screenshots into the folder.
5. After uploading the screenshots, get the [shareable link](https://youtu.be/BbLmHRqHCAw) to the folder.
6. Submit the link to the assignment section.