

**Computer Graphics using C++**

- Q.1 (a) Write a C++ program to display a circle with colored border. The color of border of the circle should change by clicking a specified key. [25]
- Q.1 (b) Write a C++ program to input co-ordinates of 3 vertices of a triangle. Display a triangle according to these co-ordinates. Fill color of user's choice inside the triangle. Program must continue until user desires to exit. [25]

**Python Programming**

- Q.2 (a) Define a function `sum()` and a function `multiply()` that sums and multiplies (respectively) all the numbers in a list of numbers. [25]  
For example, `sum([1, 2, 3, 4])` should return 10, and `multiply([1, 2, 3, 4])` should return 24.
- Q.2 (b) Define a simple "spelling correction" function `correct()` that takes a string and sees to it that 1) two or more occurrences of the space character is compressed into one, and 2) inserts an extra space after a period if the period is directly followed by a letter. [25]  
For example, `correct("This is very funny and cool.Indeed!")` should return "This is very funny and cool. Indeed!"
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