Object Oriented Programming LAB – BSDSF24
(Both Morning and Afternoon)
Lab 11 –06-05-2025

use notepad++ and developer command prompt for the following tasks

1. Code for several classes is provided. Understand it, compile it and execute it. **[20 marks]**

2. Add a class shape with no member at all and inherit rectangle class from it. Again, compile and execute the code. Manage other updates, if required with the help of TAs. **[20 marks]**

3. Add a data member color as enum Color {black, blue, green, red, white, yellow}; in shape class, complete the class shape with only the default constructor and required member functions. Later, in the main, assign various colors to each rectangle. Again, compile and execute the code. **[20 marks]**

4. Create an employee class with data members as name, department, scale (int), another class officer inheriting employee class with its data member monthly_salary (int), and a class daily_wager inheriting employee class with its data member daily_wage (int) and absent_count. With other required functions and operations, add a member function take_home_income in both inherited classes. For officers take home income is rounded 90% of the monthly salary (10% is fixed tax) and for daily wagers, it is according to the days they worked, with no tax. Demonstrate the working of classes by creating several objects of two types of employees. Note: do not create any constructors but use getters/setters in the main.

Thank you for your patience