

## Object Oriented Programming

### Lab Task #4

#### Note:

- Copied task will be awarded zero marks.
- Note that these lab task marks could be graded through a viva in lab.
- Submit the .cpp file for each task in google classroom and rename it with your roll no and name.  
For example: Ali\_Ahmed\_22p9023\_task1.cpp.
- Lab Tasks will be graded in Lab.

**Question#1:** Write a program that uses a structure named `ProductData` to store information about a product, including its Name, Price, and Quantity in stock. In the `main()` function, create two variables of the `ProductData` structure. The program should contain two functions:

1. `createProductData()`: This function prompts the user to input values for the product's Name, Price, and Quantity in stock, stores these values in a `ProductData` structure, and then returns the structure back to `main()`.
2. `displayProductData()`: This function takes a `ProductData` structure as an argument and displays the information

**Question#2:** Write a program that uses a structure to store employee data, including the employee's name and ratings for three different aspects of performance (e.g., communication, teamwork, problem-solving). Your program must have three functions:

1. `display_data()`: This function takes an array of structs as an argument and displays the data of all employees.
2. `change_ratings()`: This function takes one employee as an argument, asks for the aspect name and updated rating from the user, and updates the information accordingly.
3. `calc_average_rating()`: This function takes one employee variable as an argument and calculates the average rating based on the performance aspects.