**** *COLLEGE OF ENGINEERING, COMPUTER STUDIES*

*AND ARCHITECTURE*

***1ST SEMESTER A.Y. 2024-2025 in ICTN05C***

***Prelim Practical Examination SET A***

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Section: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Teacher: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**I. Topic:**

Develop a C# Console Application for Employee Information Input and Monthly Salary Calculation.

**II. Objectives:**

* Implement user input validation using goto statements.
* Manage basic data types (string, int, double) effectively in a console-based environment.
* Create a console application that calculates and displays an employee's monthly salary based on their daily rate and number of working days.
* Ensure robust user interaction by handling invalid inputs.

**III. Problem Statement:**

You are tasked with creating a C# console application that takes inputs for employee details: first name, last name, position, daily rate, and number of working days. The program should validate the user’s inputs and ensure only valid data is accepted. Once all information is correctly entered, the application should calculate the employee’s monthly salary and display both the employee's details and salary.

**IV. Instructions and Grading Criteria (100 points total):**

1. (10 points) Create a new C# Console Application named EmployeeSalaryApp.
2. (10 points) Define the Employee class with the following attributes:

* string firstName
* string lastName
* string position
* double dailyRate
* int workingDays

1. (10 points) Implement the constructor in the Employee class to initialize the attributes.
2. (10 points) In the Program class, correctly use Console.WriteLine and Console.ReadLine to collect user inputs for first name, last name, position, daily rate, and working days.
3. (10 points) Use int.TryParse and double.TryParse with goto statements for input validation (for daily rate and working days).
4. (10 points) Implement the print\_info() method to display employee details.
5. (10 points) Implement the calculate\_salary() method to calculate the monthly salary.
6. (10 points) Ensure correct salary calculation and display the result in the console.
7. (10 points) Handle all invalid inputs gracefully and prompt the user to try again using goto statements.
8. (10 points) Find hourly rate and display it

Ensure the program runs smoothly and all requirements are met.

***"The journey of today shapes the horizon of tomorrow; embrace each step with curiosity and courage."*GOOD LUCK!!! :)**