Quiz 15	Roll number:

Ol Davidon a C++ program to calculate monthly pay for different types of employees

Q1 Develop a C++ program to calculate monthly pay for different types of employees (full-time, part-time, and freelancers) in a payroll system using polymorphism.

You need to code only for these questions.

Section: A

- 1) An abstract base class 'Employee' with private attribute of employee\_name and a pure virtual function calculatePay() that calculates the pay based on the employee type.
- 2) Code for Derived classes:
  - 'FullTimeEmployee' with private member monthly salary,
  - 'PartTimeEmployee' with private members hourly rate and worked hours,
  - 'Freelancer' with private members of pay per project and projects completed.

Each class overrides the calculatePay() method with specific logic. You need to code for calculatePay() method in each class and desired constructor and destructor.

3) A main function where you create an array (or a vector) of pointers to Employee. Populate this array with instances of FullTimeEmployee, PartTimeEmployee, and Freelancer. Then, iterate over this array, calling the calculatePay() method on each Employee.



