

Name – Rajeshwari Pravin Patil

Group – Java 09

Intern – Java developer

Topic – Employee Payroll System

Code

```
package Employee_Payroll_System;
import java.util.Scanner;

public class A {
    public static void main(String[] args) {
        Scanner in = new Scanner(System.in);

        System.out.print("Enter Employee Name: ");
        String name = in.nextLine();

        System.out.println("\nEmployee Types:\n F - Full Time\n P - Part
Time");
        System.out.print("Enter Employee Type:");
        String type = in.nextLine();
        if (type.compareToIgnoreCase("F") == 0) {
            FullTimeEmployee employee = new FullTimeEmployee(name);

            System.out.print("\nEnter Monthly Salary: ");
            employee.setMonthlySalary(in.nextDouble());

            System.out.println(employee);
        } else if (type.compareToIgnoreCase("P") == 0) {
            PartTimeEmployee employee = new PartTimeEmployee(name);

            System.out.print("\nEnter Rate Per Hour: ");
            double rate = in.nextDouble();

            System.out.print("\nEnter Number of Hours Worked: ");
            employee.setWage(rate, in.nextInt());

            System.out.println(employee);
        } else {
            System.out.println("Error: Invalid Employee Type!");
        }
    }
}

abstract class Employee {
    private String name;

    public Employee(String name) {
        setName(name);
    }

    public void setName(String name) {
        this.name = name;
    }
}
```

```

    public String getName() {
        return name;
    }
}

final class FullTimeEmployee extends Employee {
    private double monthlySalary;

    public FullTimeEmployee(String name) {
        super(name);
    }

    public void setMonthlySalary(double salary) {
        monthlySalary = salary;
    }

    public double getMonthlySalary() {
        return monthlySalary;
    }

    public String toString() {
        return "\nEmployee Name: " + getName() + "\nMonthly Salary: " +
monthlySalary;
    }
}

final class PartTimeEmployee extends Employee {
    private double ratePerHour;
    private int hoursWorked;
    private double wage;

    public PartTimeEmployee(String name) {
        super(name);
    }

    public void setWage(double rate, int hours) {
        ratePerHour = rate;
        hoursWorked = hours;
        wage = ratePerHour * hoursWorked;
    }

    public double getWage() {
        return wage;
    }

    public String toString() {
        return "\nEmployee Name: " + getName() + "\nWage: " + wage;
    }
}

```

Enter Employee Name: Tina

Employee Types:

F - Full Time

P - Part Time

Enter Employee Type:F

```
Console x Coverage Git Repositories
<terminated> A (7) [Java Application] D:\eclipse\plugins\org.eclipse.justj.openjdkhotspotjre.full.win32.x86_64_17.0.4.v20220903-1038\jre\bin\javaw.exe (Nov 28, 2023, 7:15:27 PM - 7:24:53 PM) [pid: 19796]
P - Part Time
Enter Employee Type:F

Enter Monthly Salary: 30000

Employee Name: Tina
Monthly Salary: 30000.0
```