package payrollsystem;

public abstract class Employee {

private final String name;

private final String address;

private final String etazkira;

public Employee(String name,String address, String tazkira){

this.name = name;

this.address = address;

this.etazkira = tazkira;

}

public String getName() {return name; }

public String getAddress() {return address; }

public String getEtazkira() { return etazkira; }

@Override

public String toString(){

return String.format("Employee Name is %s, \n He/She Lives in %s"

+ "\n and his/her Etazkira "

+ "number is %s",getName(),getAddress(),getEtazkira());

}

public abstract double earnings();

}

package payrollsystem;

public class salaried extends Employee{

private double monthlysalary;

public salaried(String name, String address, String tazkira, double sal) {

super(name, address, tazkira);

if (sal < 0){

throw new ArithmeticException("The Salary Must be above 0.0");

}

this.monthlysalary = sal;

}

public double getMonthlysalary() {

return monthlysalary;

}

public void setMonthlysalary(double monthlysalary) {

if (monthlysalary < 0){

throw new ArithmeticException("The Salary Must be above 0.0");

}

this.monthlysalary = monthlysalary;

}

@Override

public String toString(){

return String.format("%s, \n and his/her monthly "

+ "salary is %.2f", super.toString(), earnings());

}

@Override

public double earnings() {

return this.monthlysalary;

}

}