Write a Java program to calculate the rate of interest of the employee’s Provident Fund use the try and catch and finally block.

CODE:

import java.util.Scanner;

public class ProvidentFundCalculator {

public static void main(String[] args) {

Scanner scanner = new Scanner(System.in);

try {

// Input employee's basic salary

System.out.print("Enter employee's basic salary: ");

double basicSalary = scanner.nextDouble();

// Calculate PF based on salary slab

double pfRate = calculatePF(basicSalary);

System.out.println("Employee's Provident Fund (PF) rate: " + pfRate + "%");

} catch (Exception e) {

System.out.println("Error: " + e.getMessage());

} finally {

scanner.close(); // Closing the scanner object in the finally block

}

}

public static double calculatePF(double basicSalary) {

double pfRate;

if (basicSalary >= 10000 && basicSalary <= 20000) {

pfRate = 8.5;

} else if (basicSalary > 20000 && basicSalary <= 30000) {

pfRate = 9.5;

} else if (basicSalary > 30000 && basicSalary <= 50000) {

pfRate = 10;

} else if (basicSalary > 50000) {

pfRate = 11;

} else {

throw new IllegalArgumentException("Basic salary should be greater than 0.");

}

return pfRate;

}

}

OUTPUT:

C:\javap>javac ProvidentFundCalculator.java

C:\javap>java ProvidentFundCalculator

Enter employee's basic salary: 20000

Employee's Provident Fund (PF) rate: 8.5%

