

## Java Exercises on Exceptions

### Exercise 1: Validate the Full Name of an Employee

Write a Java Program to validate the full name of an employee. Create and throw a user-defined exception if firstName and lastName are blank.

```
class InvalidNameException extends Exception {
    public InvalidNameException(String message) {
        super(message);
    }
}

public class EmployeeNameValidator {
    public static void validateName(String firstName, String lastName) throws
InvalidNameException {
        if (firstName == null || firstName.isBlank() || lastName == null || lastName.isBlank()) {
            throw new InvalidNameException("First name or last name cannot be blank.");
        }
    }

    public static void main(String[] args) {
        try {
            validateName("Muhammed", "Riza");
            validateName("", "azir");
        } catch (InvalidNameException e) {
            System.out.println("Error: " + e.getMessage());
        }
    }
}
```

Output

Error: First name or last name cannot be blank.

### Exercise 2: Validate the Age of a Person

Validate the age of a person and display a proper message by using a user-defined exception. The age of a person should be above 15.

```
class InvalidAgeException extends Exception {
    public InvalidAgeException(String message) {
        super(message);
    }
}
```

```

    }
}

public class AgeValidator {
    public static void validateAge(int age) throws InvalidAgeException {
        if (age <= 15) {
            throw new InvalidAgeException("Age must be above 15.");
        }
    }

    public static void main(String[] args) {
        try {
            validateAge(23);
            validateAge(13);
        } catch (InvalidAgeException e) {
            System.out.println("Error: " + e.getMessage());
        }
    }
}

```

Output

Error: Age must be above 15.

### Exercise 3: Validate Employee Salary

Create an Exception class named as “EmployeeException” (User-defined Exception) in a package named as “com.demo.exception” and throw an exception if the salary of an employee is below 3000. Use the Exception Handling mechanism to handle the exception properly.

```

package com.demo.exception;

class EmployeeException extends Exception {
    public EmployeeException(String message) {
        super(message);
    }
}

public class SalaryValidator {
    public static void validateSalary(double salary) throws EmployeeException {
        if (salary < 3000) {
            throw new EmployeeException("Salary cannot be less than 3000.");
        }
    }
}

```

```
}

public static void main(String[] args) {
    try {
        validateSalary(6000);
        validateSalary(2500);
    } catch (EmployeeException e) {
        System.out.println("Error: " + e.getMessage());
    }
}
}
```

Output

Error: Salary cannot be less than 3000.