

APPRAISAL CALCULATOR

Project Objective

Create Console Based JAVA Application For Appraisal Calculation

General Instructions:

1. Do not change the class name / package name / method prototype.
2. Use Scanner Classes to get inputs.
3. Handle the exceptions & inputs properly.
4. Follow proper coding standards.

Packages

com.wipro.performance.bean	Bean Classes
com.wipro.performance.exception	Exception Class
com.wipro.performance.entity	Core logic and validation class
com.wipro.performance.main	Main class for testing

Design Specification

Package : com.wipro.performance.bean

Class Name	Description
EmployeeBean	String ADID; (private) String empName; (private) String businessUnit; (private) Date dateOfJoining; (private) float currentSalary; (private) float totalAttendance; (private) float managerRating; (private) Getters and Setters for above properties.

Package : com.wipro.performance.Exception

Class Name	Description
InvalidADIDException	Should override toString() method and return "Invalid ADID"
InvalidBUException	Should override toString() method and return "Invalid Business Unit"
InvalidDOJException	Should override toString() method and return "Invalid Date Of Joining"
InvalidCurrentSalaryException	Should override toString() method and return "Invalid Current Salary"

Package : com.wipro.performance.entity

Class Name	Method Name & Description								
Service	<p>public String validateData(EmployeeBean ebean)</p> <p>The above method should validate AD-ID , BU Name, DOJ and Current Salary.</p> <p>Handle ADID Exception if ADID is not a 6 digit alpha-numeric value,</p> <p>Handle BUException, if BU is not JAVA or Oracle or BigData (use equalsIgnoreCase)</p> <p>Handle DOJ Exception, if DOJ is current date or future date. (It should be previous date)</p> <p>Handle InvalidSalaryException, if salary is less than 50000.</p> <p>Total attendance must be ranges between [0-200] (inclusive) - Else return "Invalid Attendance"</p> <p>Manager rating should be [0-5] (inclusive), else return "Invalid Rating"</p> <p>If all inputs are valid, this method should return "SUCCESS"</p> <p>public String computeAppraisal(EmployeeBean ebean)</p> <p>Call, validateData() method, if it return "Success"</p> <p>This method should get totalAttendance and manager rating.</p> <p>Compute appraisal using the below formula</p> <table><tr><th>Total Attendance</th><th>Hike %</th></tr><tr><td>0-100 days</td><td>0% of original salary</td></tr><tr><td>101 -150 days</td><td>5% of original salary</td></tr><tr><td>151-200 days</td><td>6% of original salary</td></tr></table>	Total Attendance	Hike %	0-100 days	0% of original salary	101 -150 days	5% of original salary	151-200 days	6% of original salary
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In addition to that,

Manager Rating	Hike %
5	10% of original salary
4	9% of original salary
3	8% of original salary
2	7% of original salary
1	6% of original salary
0	0% of original salary

Compute final hike % and compute the updated salary and return the updated salary. **Note that: Convert float to string and return. As per the question given, this method is supposed to return String.**

If validateData() method doesn't return "Success", get the message returned by the validateData() method and return it.

public String

getAppraisalDetails(EmployeeBean ebean)

Call, **computeAppraisal** method and get the updated salary, set it to the employee bean using setter if and only if the salary is increased. (Eg: Return detail as "ADID:UpdatedSalary".) If there is no change in salary, return the message as "ADID: Message"

Example 1: (Valid Case)

AB1234:16500.32.

Example 2: (Invalid Case)

AB1234:Invalid Date Of Joining

Design Specification

Package : com.wipro.performance.main

Class Name	Description
MainClass	<p>Main Method.</p> <pre>class MainClass { public static void main(String args[]) { //Create object for EmployeeBean Class // Set the values [Get all values using Scanner] // Call getAppraisalDetails // Print result } }</pre>
