

EXTRA CREDIT EXERCISE # 7.

Download the solution of help program for extra credit # 7 (from date 4/2 of the schedules page of the course's web site).

Modify the provided program so that:

- An exception class is added that sends a message of “extreme high compensation” when it is thrown. Name of class: HighCompensationException. Must have a constructor, a getMessage and toString methods. See sample output to figure out the messages.
- The exception is tested in the proper class in the proper method of the program and it is thrown when a limit is exceeded in compensation. The limit is:
800.00 for AdministrativePersonnel
2000.00 for Engineer
2000.00 for Management
When the limit is exceeded the salary is set to respective limit for each category of Employee and returned (hind: think of finally block).
i.e if the compensation is calculated to 2500.00 for an engineer, the exception will be thrown and the value 2000.00 will be returned for the compensation.
- Modify the proper classes with whatever modifications are needed.
- Test the program and much the sample output.
- Present the program to TA by end of class period on 4/2 for permission to upload submission on Blackboard.

SAMPLE OUTPUT

C:\CS116\SPRING2014\ExtraCredit\Practice7\PracticeProgram7Solution>java Payroll

```
The compensation exceeds the limit  
High CompensationException triggered  
Your compensation exceeded the limit and now it is set to: 1200.0  
The salary is 1200.0  
The compensation exceeds the limit  
High CompensationException triggered  
Your compensation exceeded the limit and now it is set to: 1500.0  
The salary is 1500.0  
The compensation exceeds the limit  
High CompensationException triggered  
Your compensation exceeded the limit and now it is set to: 1500.0  
The salary is 1500.0  
The salary is 800.0  
The compensation exceeds the limit  
High CompensationException triggered  
Your compensation exceeded the limit and now it is set to: 1200.0  
The salary is 1200.0  
The compensation exceeds the limit  
High CompensationException triggered  
Your compensation exceeded the limit and now it is set to: 1500.0
```

These two messages come from the exception class

The salary is 1500.0
The salary is 450.0
The compensation exceeds the limit
High CompensationException triggered
Your compensation exceeded the limit and now it is set to: 1200.0
The salary is 1200.0
The compensation exceeds the limit
High CompensationException triggered
Your compensation exceeded the limit and now it is set to: 800.0
The salary is 800.0
The compensation exceeds the limit
High CompensationException triggered
Your compensation exceeded the limit and now it is set to: 1500.0
The salary is 1500.0
The name is: John Eng1 The ss number is: 12345 The id is: 10 The currentId is:1The weekly salary is: 1000.0 The years of exper. is: 10
The name is: Jim Man1 The ss number is: 23451 The id is: 10 The currentId is:2The weekly salary is: 1500.0 The bonus is 500.0
The name is: Jim Man2 The ss number is: 34512 The id is: 10 The currentId is:3The weekly salary is: 2000.0 The bonus is 100.0
The name is: Helen Adm1 The ss number is: 45123 The id is: 10 The currentId is:4The rate is: 20.0 The hours are 40.0
The name is: Maria Eng2 The ss number is: 51234 The id is: 10 The currentId is:5The weekly salary is: 1200.0 The years of exper. is: 12
The name is: Jim Man3 The ss number is: 23456 The id is: 10 The currentId is:6The weekly salary is: 1200.0 The bonus is 600.0
The name is: John Doe1 The ss number is: 34562 The id is: 10 The currentId is:7The rate is: 15.0 The hours are 30.0
The name is: Mary Eng3 The ss number is: 45612 The id is: 10 The currentId is:8The weekly salary is: 2000.0 The years of exper. is: 20
The name is: Nick Doe2 The ss number is: 56234 The id is: 10 The currentId is:9The rate is: 22.0 The hours are 45.0
The name is: Ann Man4 The ss number is: 62345 The id is: 10 The currentId is:10The weekly salary is: 2300.0 The bonus is 400.0
The compensation exceeds the limit
High CompensationException triggered
Your compensation exceeded the limit and now it is set to: 1200.0
The compensation exceeds the limit
High CompensationException triggered
Your compensation exceeded the limit and now it is set to: 1500.0
The compensation exceeds the limit
High CompensationException triggered
Your compensation exceeded the limit and now it is set to: 1500.0
The compensation exceeds the limit
High CompensationException triggered
Your compensation exceeded the limit and now it is set to: 1200.0
The compensation exceeds the limit
High CompensationException triggered
Your compensation exceeded the limit and now it is set to: 1500.0
The compensation exceeds the limit
High CompensationException triggered
Your compensation exceeded the limit and now it is set to: 1200.0
The compensation exceeds the limit
High CompensationException triggered

Your compensation exceeded the limit and now it is set to: 800.0
The compensation exceeds the limit
High CompensationException triggered
Your compensation exceeded the limit and now it is set to: 1500.0
The total amount of salaries paid is: 11650.0

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