Discount Rate Calculation(---RETIRED---)

Grade settings: Maximum grade: 100
Disable external file upload, paste and drop external content: Yes
Based on: Discount Rate Calculation(---RETIRED---)
Run: Yes **Evaluate**: Yes
Automatic grade: Yes
Write a program to calculate discount of the acccount holders based on the transaction amount and registration date using below mentioned prototype:

1. Read account details from the User. The details would include id, DOR (date of registration) and transaction amount in the given order. The datatype for id is string, DOR is string and transaction amount is integer.

2. You decide to build two hashmaps. The first hashmap contains employee id as key and DOR as value, and the second hashmap contains same employee ids as key and amount as value.

3. Discount Amount as on 01/01/2015:

a. If the transaction amount greater than or equal to 20000 and registration greater than or equal to 5 year then discount rate is 20% of transaction amount.

b. If the transaction amount greater than or equal to 20000 and registration less then to 5 year then discount rate is 10% of transaction amount.

c. If the transaction amount less than to 20000 and registration greater than or equal to 5 year then discount rate is 15% of transaction amount.

d. If the transaction amount less than to 20000 and registration less then to 5 year then discount rate is 5% of transaction amount.

4. You decide to write a function **calculateDiscount** which takes the above hashmaps as input and returns the ArrayList as output. Include this function in class UserMainCode.

Create a Class Main which would be used to read employee details in step 1 and build the two hashmaps. Call the static method present in UserMainCode.

Input and Output Format:

Input consists of transaction details.

The first number indicates the size of the employees.

The next three values indicate the user id, user DOR and transaction amount.

The DOR (Date of Registration) format is "dd-mm-yyyy".

Output consists of a ArrayList of string which has the user id and discount amount one in a line for each user.

Refer sample output for formatting specifications.

Sample Input 1:

4

A-1010

20-11-2007

25000

B-1011

04-12-2010

30000

C-1012

11-11-2005

15000

D-1013

02-12-2012

10000

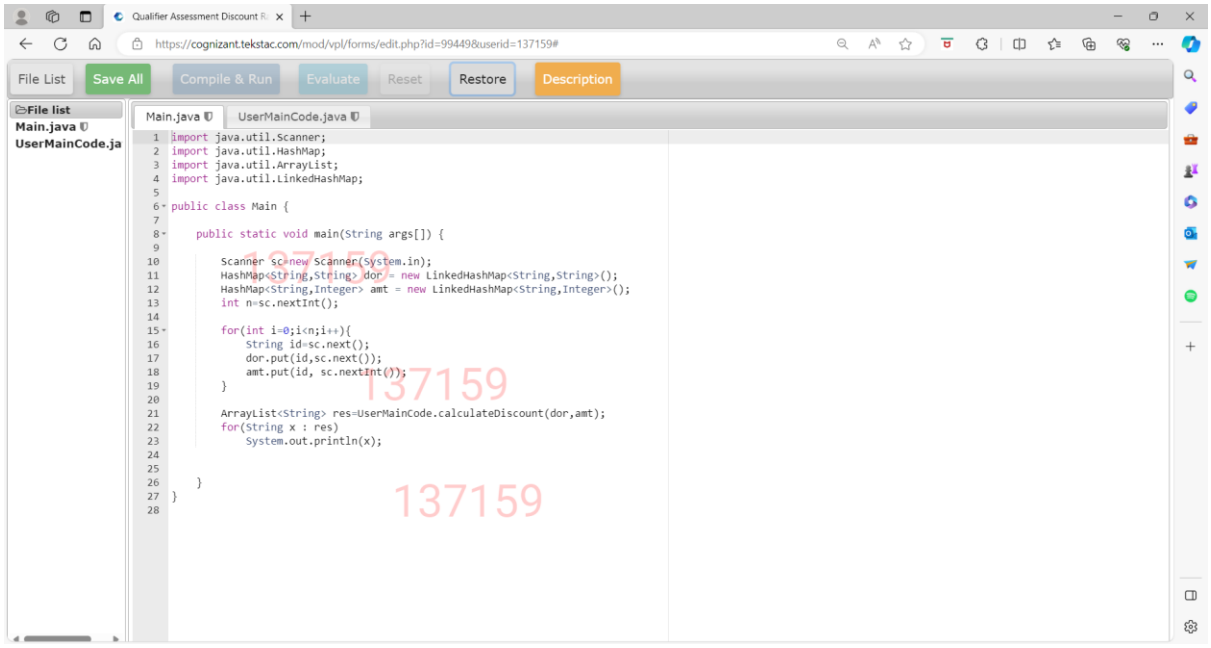
Sample Output 1:

A-1010:5000

B-1011:3000

C-1012:2250

D-1013:500


Qualifier Assessment Discount R
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File List
Save All
Compile & Run
Evaluate
Reset
Restore
Description
File list
Main.java
UserMainCode.ja
Main.java
UserMainCode.java
import java.util.Scanner;
import java.util.HashMap;
import java.util.ArrayList;
import java.util.LinkedHashMap;
public class Main {
public static void main(String args[]) {
Scanner sc=new Scanner(System.in);
HashMap<String,String> dor = new LinkedHashMap<String,String>();
HashMap<String,Integer> amt = new LinkedHashMap<String,Integer>();
int n=sc.nextInt();
for(int i=0;i<n;i++){
String id=sc.next();
dor.put(id,sc.next());
amt.put(id, sc.nextInt());
}
ArrayList<String> res=UserMainCode.calculateDiscount(dor,amt);
for(String x : res)
System.out.println(x);
}
}
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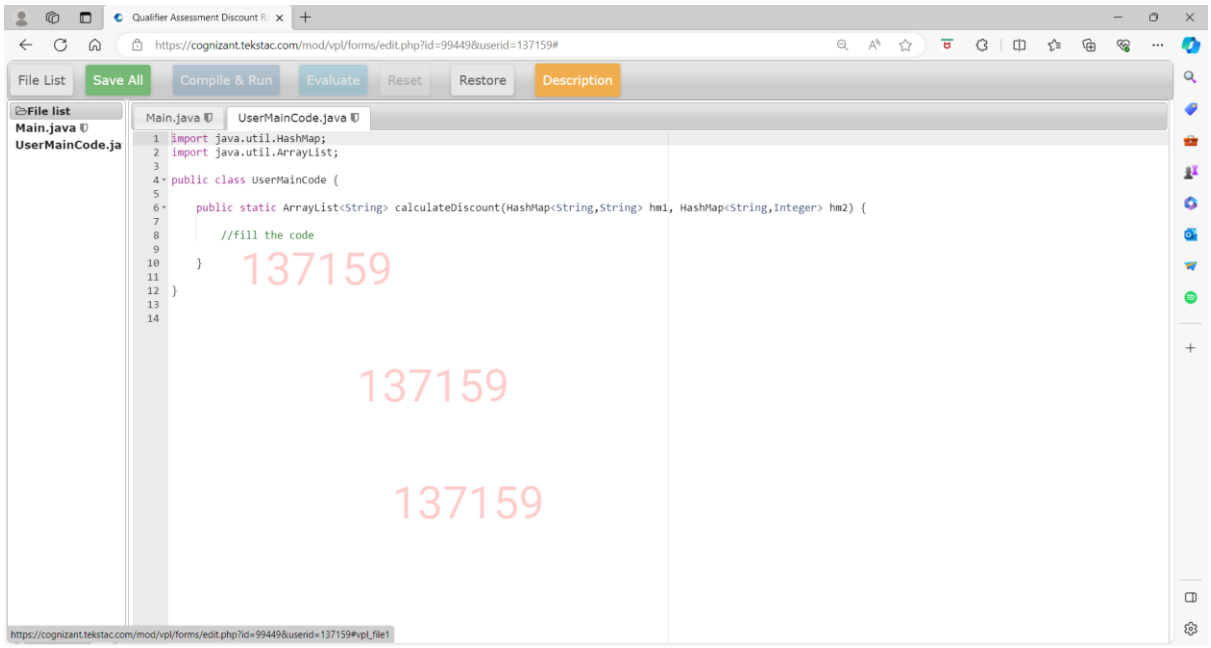
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Description
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Main.java
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Main.java
UserMainCode.java
import java.util.HashMap;
import java.util.ArrayList;
public class UserMainCode {
public static ArrayList<String> calculateDiscount(HashMap<String,String> hm1, HashMap<String,Integer> hm2) {
//fill the code
}
}
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