

<p align="center"> <b>Ahsanullah University of Science and Technology</b>  <b>Course Title: Object Oriented Programming Lab</b>  <b>Course Number: CSE1206</b>  <b>Fall 2020</b> </p>
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**Total Marks: 10**

<p>1. Create a Java Project Named <b>AccountDemo</b>. Inside the same package (folder) create a new class named <b>Account</b>.</p> <p>There should be two classes: <b>AccountDemo</b> [which has the main method] <b>Account</b></p>	<b>1</b>
<p>2. Inside the <b>Account</b> class declare <b>3 public</b> variables. The datatypes are given inside the bracket: <b>accountID (int), balance (double), transactionType (String).</b></p>	<b>1</b>
<p>3. Declare <b>2 Constructors</b> in <b>Account Class</b>:</p> <p>a. A constructor that takes no parameters and initializes the variables as: <b>accountID = 0</b> <b>balance = -1.0</b> <b>transactionType = null</b></p> <p>b. Another Constructor which takes all the variables as parameter and assigns those parameters to the class variables.</p>	<b>3</b>
<p>4. Declare a <b>public</b> method called <b>changeBalance(double x)</b> in <b>Account Class</b> whose return type is <b>double</b> and takes a double variable as parameter.</p> <p>The method calculates the final balance and returns it. If <b>transactionType</b> is equal to the String "<b>debit</b>" then the amount given in the parameter of the method is deducted from the total balance. Otherwise if <b>transactionType</b> is equal to the String "<b>credit</b>" then it is added to the balance.</p> <p><b>For example:</b> if balance = 5000, transactionType = "debit" and x = 50 , then balance = 5000 - 50 = 4950 <b>If</b> transactionType = "credit" then balance = 5000 + 50 = 5050</p>	<b>3</b>
<p>5. Now print the <b>accountID, balance and transactionType</b> in the main method inside the <b>AccountDemo</b> class. Also print the discounted price by calling the method <b>changeBalance(value)</b> of the Account class in the main method.</p>	<b>2</b>

**Please Go the Next Page**

Sample Output
Account ID is : 1001 Original Balance : 5000.0 Transaction Type : debit Changed Balance : 4950.0