| **Ahsanullah University of Science and Technology**  **Course Title: Object Oriented Programming Lab**  **Course Number: CSE1206**  **Fall 2020** |
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**Assignment: 2 Group: A2 Marks: 10**

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

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