**Question 1**

**Bank Account Opening**

**Properties** - Customer Id -(HDFC1001), Customer name, Balance, Gender (enum), Phone, Mail Id, Date of Birth

**Methods** - Deposit, Withdraw

**Execution sequence**

Design main menu that asks user **1. Registration or 2. Login 3. Exit**

1. If user 1.Registration selected ask all property details listed above and store it to list
2. If 3. Selected exit from application
3. If 2. Login selected ask customer id

* Verify customer id

1. If no match found, then tell the user **"Invalid user ID"**

b. If match found then display the sub menu

**1. Deposit, 2. withdraw, 3.balance check 4. exit**

a. If 1. selected ask deposit amount from user and add it to balance and display current balance

b. If 2. selected ask user amount to be withdrawn and deduct the amount from balance and display current balance

c. If 3. pressed display current balance

d. If 4. pressed exit from submenu and show main menu.

**Question 2**

**Employee payroll management**

**properties** – EmployeeID - (SF1001), Employee name, Role, WorkLocation (enum), Team name, Date of Joining, Number of Working Days in Month, Number of Leave Taken, Gender (enum – Male, Female )

**Methods** - Salary Calculation

**Execution sequence**

Design main menu that ask user **1. Registration or 2.Login 3. Exit**

1. If employee selected 1. Registration selected ask all property details listed above, create object, display employee ID and store it to list
2. If 3. Selected exit from application
3. If 2. Login selected ask employee id

* Verify employee id

1. If no match found then tell the **“User** **Invalid ID"**
2. If match found then display the sub menu

**1. Calculate salary 2. display details 3. exit**

a. If 1. Selected calculate salary based on Rs. 500 / One Working day

b. If 2. Selected display the Employee details

c. If 3. Pressed exit from submenu and show main menu.

**Question 3**

**EB Bill calculation**

**Properties** - Meter ID -(EB1001), Username, Phone number, Mail id, Units Used =0

**Methods** – Calculate Amount

**Execution Sequence**

Design main menu that ask user 1. Registration or 2. Login 3. Exit

1. If 1. Registration selected ask Username, Phone number, Mail id, create object, show Meter ID and store it to list
2. If 3. Selected exit from application
3. If 2. Login selected ask Meter id

* verify Meter id
* If no match found then tell the user **"Invalid Meter** **ID "**
* If match found then display the sub menu

**1. Calculate Amount 2. Display user Details 2. Exit**

a. if 1. Selected ask user to enter unit details and based on unit entered calculate Rs. 5 / Unit and Display Bill - ID, User Name and unit and Amount

b. if 2. Selected display the User details - Meter ID -(EB1001), Username, Phone number, Mail id

if 3. Pressed exit from submenu and show main menu.