Assessment :

Pseudo code 10 Marks

Q1 : Write a Pseudo code for verify if number entered is prime number.

Q2: Write a Pseudo code for transferring amount from one account to another. [Should validate whether both accounts exists]

RDBMS: 30 Marks

Q1. Write SQL Query to create following tables [DO NOT CREATE PRIMARY / FOREIGN KEYS ]

Customer: CustomerId, Fullname, address, city, pan number

Account: accountNo, accType, balance, customerId

Q2. Write SQL to insert following records in Customer & Account tables:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| C1002 | Rajiv Bhatia | Xyz Path, Chandni chowk | Delhi | AXNSS 1234 A |
| C1003 | Alia Bhatt | Khar | Mumbai | SZAXS 5656 B |
| C1004 | Vijay Deol | Bandra | Mumbai | APOI 5675 A |
| C1005 | Ajay Deol | Bandra | Mumbai | AUIO 7676 K |

|  |  |  |  |
| --- | --- | --- | --- |
| SB122666 | Savings | 67000 | C1002 |
| CB565556 | Current | 786928.98 | C1002 |
| SB876565 | Savings | 547899.90 | C1004 |
| SB565722 | Savings | 67600 | C1003 |
| SB757676 | Savings | 66197.88 | C1003 |
| SB166778 | Current | 16000 | C1008 |

Q3. Write a Left Join to get all customers and accounts. Join should display all customers [Even those who DO NOT have any account].

UML 10 Marks

Q1. For RDBMS Question #1, Create Class Diagram for Both tables.

Q2. Create an Activity Diagram to explain fund transfer.

HINT: Fund transfer is possible from Any account type to any other account type.

Must validate existence of both account

Must validate account balance before transfer

Must update balance after transaction completes.