**Pseudo code**

**Pseudo code - Solution 1**

BEGIN

DECLARE GivenNumber

GET GivenNumber

FOR count 2 to GivenNumber-1

IF GivenNumber mod count = 0

Display “Given number is not prime”

Break

Else count = GivenNumber-1

Display “Given number is prime”

END IF

End FOR

END

**Pseudo code - Solution 2**

BEGIN

DECLARE FrmAC, ToAC,TrnsAmt

GET FrmAC, ToAC

If FrmAC does not exist

Display “From account does not exist, funds cannot be transferred”

Else if ToAC does not exist

Display “To account does not exist, funds cannot be transferred”

Else if FrmAC does not have sufficient funds

Display “From account does not have sufficient funds, funds cannot be transferred”

Else

Bal of FrmAC = Bal of FrmAC - TrnsAmt

Bal of TrnsAmt = Bal of ToAC + TrnsAmt

Display “Funds transferred successfully”

END if

END

**RDBMS**

**RDBMS - Solution 1**

create table Customer (

CustomerId varchar (5),

Fullname varchar(30) not null,

Address varchar(50),

City varchar(10) not null,

PANnumber varchar(10) not null

);

create table Account (

accountNo varchar (10) not null,

accType varchar(10) not null,

balance number(10),

CustomerId varchar (5)

);

**RDBMS - Solution 2**

insert into Customer (CustomerId, Fullname, Address, City, PANnumber)

values ('C1002','Rajiv Bhatia','Xyz Path, Chandni chowk','Delhi','AXNSS1234A');

insert into Customer (CustomerId, Fullname, Address, City, PANnumber)

values ('C1003','Alia Bhatt','Khar','Mumbai','SZAXS5656B');

insert into Customer (CustomerId, Fullname, Address, City, PANnumber)

values ('C1004','Vijay Deol','Bandra','Mumbai','APOI5675A');

insert into Customer (CustomerId, Fullname, Address, City, PANnumber)

values ('C1005','Ajay Deol','Bandra','Mumbai','AUIO7676K');

insert into Account (accountNo, accType, balance, CustomerId)

values ('SB122666','Savings',67000,'C1002');

insert into Account (accountNo, accType, balance, CustomerId)

values ('CB565556','Current',786928.98,'C1002');

insert into Account (accountNo, accType, balance, CustomerId)

values ('SB876565','Savings',547899.90,'C1004');

insert into Account (accountNo, accType, balance, CustomerId)

values ('SB565722','Savings',67600,'C1003');

insert into Account (accountNo, accType, balance, CustomerId)

values ('SB757676','Savings',66197.88,'C1003');

insert into Account (accountNo, accType, balance, CustomerId)

values ('SB166778','Current',16000,'C1008');

**RDBMS - Solution 3**

select C.CustomerId,C.Fullname,A.accountNo from Customer C left join Account A on (C.CustomerId=A.CustomerId);

**UML – Solution 1**

|  |
| --- |
| Customer |
| CustomerId : String |
| Fullname : String |
| Address : String |
| City : String |
| PANnumber : String |
| ReqToOpenAccount() |

|  |
| --- |
| Account |
| accountNo : String |
| accType : String |
| balance : Number |
| customerId : String |

**UML – Solution 2**

