Name of Experiment: Write a test application named account test that demonstrate the account capabilities creating 5 objects without constructors.

Introduction :- We have to design a class representing a bank account and we also have to write a test application to demonstrate the capabilities of the account class without using constructors.

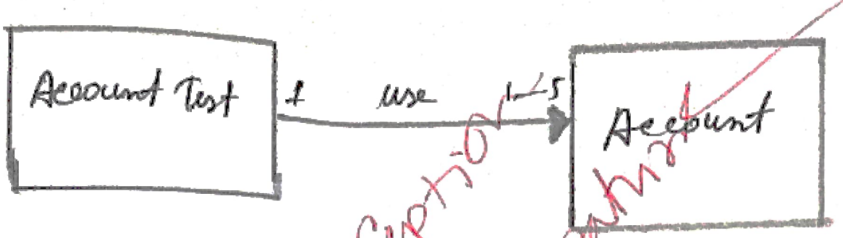
Objectives :-

* experiencing the object oriented approach of solving a problem
* demonstrate different aspects of object oriented programming.
* how to construct and use objects.
* how to define methods and call them.

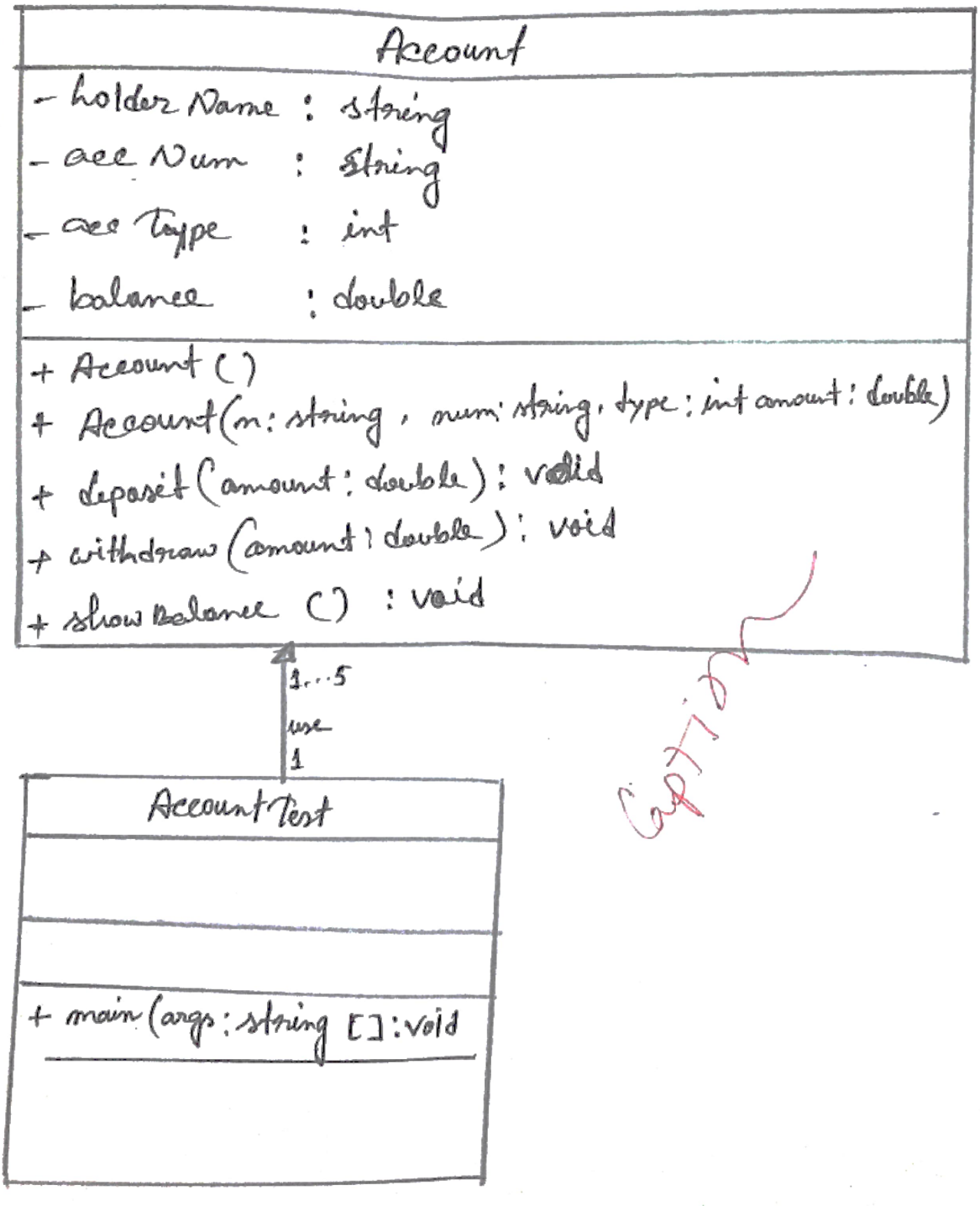
Analysis :-

After analysing our problem we have found following components of our problem to solve it.

- class Account : this is the class that will represented a bank account


Account Test
1
use
1..5
Account

Design :-


Account
- holderName : string
- accNum : String
- accType : int
- balance : double
+ Account()
+ Account(n: string, num: string, type: int amount: double)
+ deposit(amount: double): valid
+ withdraw(amount: double): void
+ showBalance() : void
1..5
use
1
AccountTest
+ main(args: string[]: void

```
init (name : string , num: string , type : int , amount : double):
  // assign all parameters to the respective data member

  devName = name
  accNum  = num
  accType = type
  balance = amount

deposit (amount : double):
  // deposit specified amount and add that to the existing
     balance

  balance += amount

withdraw (amount ; double):
  // withdraw specified amount if available
     if amount greater than balance :
       print error message

     else
        balance = balance - amount
        print new balance after withdrawal

showBalance ():
     // show the available balance with account holder name

     print account holder name and available balance
```

main (args : string []):

// use Account class, create 5 object and show the capabilities of the class

create 5 Account class object
show method calls

Implementation :-

```
Class Account {
 private string holderName;
 private string accNum;
 private int accType;
 private double balance;

void int (string name, string num, int type. double amount) {
  holderName = name;
  accNum = num;
  accType = type;
  balance = amount;
 }
 public void deposit (double amount) {
    balance += amount;
 }
```

```
publie void withdraw (double amount) {
  if (amount > balance) }
  system. out println (" Insufficient balance !");
  system. out println (" Your current balance is :" + balana);
{
  else {
   balance = amount;
   System. out. println ("Your new balance :" + balance);
  }
}
public void showBalance () {
  System.out.println (" Name: " + holderName);
  System out println (" Balance : " + balance);
  }
}
class Account Test {
  public static void main (string [] args) {
   Account [] accounts = new Account [5];
   accounts [0] = new Account ();
   accounts [1] = new Account (1);
```