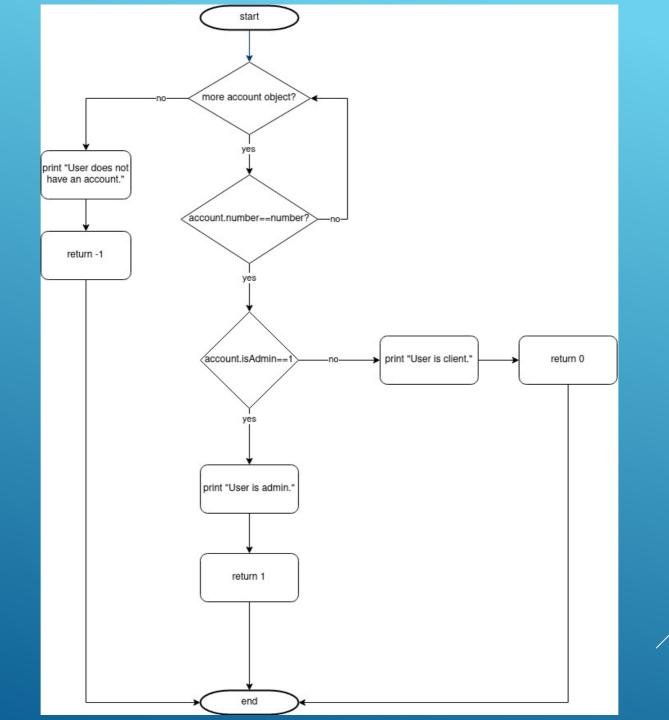
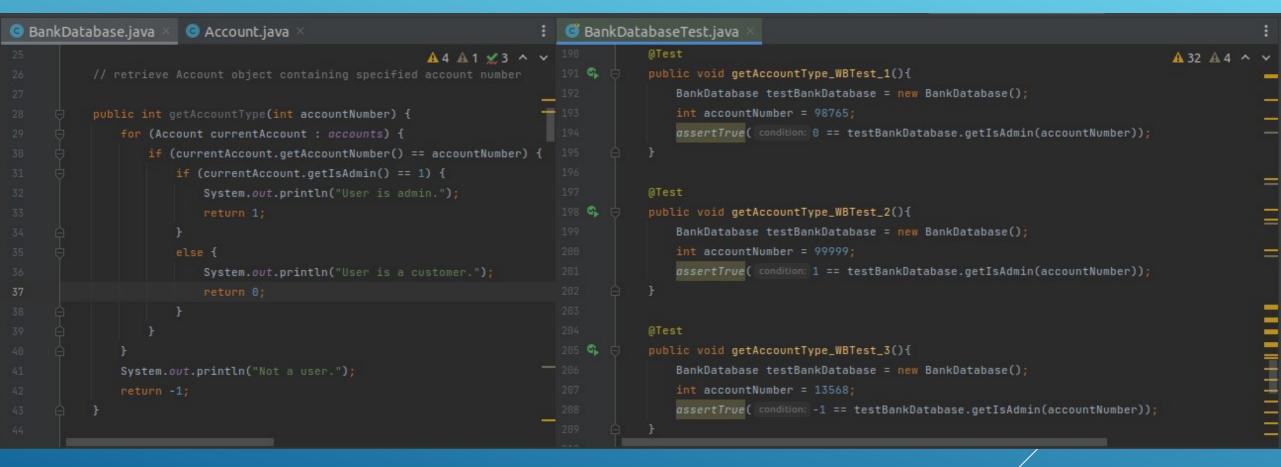
ATM MACHINE

MURAT CAN ALAN - BORAN KUZUKIRAM 201928003 - 202028301





```
public int getAccountType_mutant1(int accountNumber) {
     for (Account currentAccount : accounts) {
          if (currentAccount.getAccountNumber() != accountNumber) {
              if (currentAccount.getIsAdmin() == 1) {
                  System.out.println("User is admin.");
                  System.out.println("User is a customer.");
     System.out.println("Not a user.");
public void getAccountType_mutant_1(){
   BankDatabase testBankDatabase = new BankDatabase();
   int accountNumber = 98765;
   assertTrue( condition: 0 == testBankDatabase.getAccountType_mutant1(accountNumber));
```

```
public int getAccountType_mutant2(int accountNumber) {
      for (Account currentAccount : accounts) {
          if (currentAccount.getAccountNumber() == accountNumber) {
              if (currentAccount.getIsAdmin() != 1) { //*
                   System.out.println("User is admin.");
                  return 1;
              else {
                   System.out.println("User is a customer.");
     System.out.println("Not a user.");
public void getAccountType_mutant_2(){
   BankDatabase testBankDatabase = new BankDatabase();
   assertTrue( condition: 1 == testBankDatabase.getAccountType_mutant2(accountNumber));
```

```
public int getAccountType_mutant3(int accountNumber) {
     for (Account currentAccount : accounts) {
         if (currentAccount.getAccountNumber() == accountNumber) {
              if (currentAccount.getIsAdmin() == 1) {
                  System.out.println("User is admin.");
                  System.out.println("User is a customer.");
     System.out.println("Not a user.");
public void getAccountType_mutant_3(){
   BankDatabase testBankDatabase = new BankDatabase();
   assertTrue( condition: -1 == testBankDatabase.getAccountType_mutant3(accountNumber));
```

```
public int getAccountType_mutant4(int accountNumber) {
      for (Account currentAccount : accounts) {
          if (currentAccount.getAccountNumber() == accountNumber) {
               if (currentAccount.getIsAdmin() == 1) {
                   System.out.println("User is admin.");
                   System.out.println("User is a customer.");
      System.out.println("Not a user.");
public void getAccountType_mutant_4(){
   BankDatabase testBankDatabase = new BankDatabase();
   int accountNumber = 13568;
   assertTrue( condition: -1 == testBankDatabase.getAccountType_mutant4(accountNumber));
```

```
@Test
public void test_DT_1(){
    BankDatabase testBankDatabase = new BankDatabase();
    int accountNumber = 12345;
    assertTrue( condition: 0 == testBankDatabase.getAccountType(accountNumber));
public void test_DT_2(){
    BankDatabase testBankDatabase = new BankDatabase();
    int accountNumber = 99999;
    assertTrue( condition: 1 == testBankDatabase.getAccountType(accountNumber));
@Test
public void test_DT_3(){
    BankDatabase testBankDatabase = new BankDatabase();
    int accountNumber = 76268;
    assertTrue( condition: -1 == testBankDatabase.getAccountType(accountNumber));
```

DECISION TABLE

Conditions	Case 1	Case 2	Case 3
Account number matched.	N	Υ	Υ
Account owner is an admin.	_	N	Υ
Account owner is a client.	-	Υ	N
Actions			
a1: Return -1	Х		
a2: Return 0		Х	
a3: Return 1			Х