

2. Explore JavaBank. Record your observations.

What happens when you:

Display Accounts

If no accounts exist, it shows: "No accounts currently created."

Create Accounts

You must provide your name and account number. Optionally, you can add an initial balance.

Delete Accounts

Shows an error: "Oops! This feature isn't available in this version."

Make a Withdrawal Transaction

Enter the amount and your details (name, account number) to complete the withdrawal.

Clicking "Make Transaction" without information does nothing.

Make a Deposit Transaction

Enter the amount and your details (name, account number) to complete the deposit. Clicking

"Make Transaction" without information does nothing.

Can you display accounts before any are created?

Yes, it will show all created accounts.

Can you create an account without entering required fields?

No, name and account number are mandatory.

Can you make a withdrawal without an amount?

No, you must enter an amount.

Can you make a deposit without an amount?

No, you must enter an amount.

What other questions do you have about the JavaBank application?

Why can you edit "Account Details"?

What changes would improve the application?

Add buttons, clearer instructions, and better organization.

What additions would increase functionality?

Add sections for account information and transactions.

3. Download the bikeproject.zip file from Oracle iLearning, unzip the file to a directory on your local machine. Import the existing project into Eclipse.

a. Give an example of two primitive data types that are used to store fields within a class

- Int and String.

b. Give an example of where String concatenation takes place.

```
public void printDescription()
{
    super.printDescription();
    System.out.println("This Roadbike bike has " + this.tyreWidth + "mm tyres and a post
height of " + this.postHeight + ".");
}
```

c. What are the names of the objects created in this program?

- bike1
- bike2
- bike3
- bike4

d. How many constructors does each class have?

- Bike have 2
- RoadBike have 3
- MountainBike have 2

e. Inheritance is part of this program. Identify the Super and subclasses from this program.

- Bike is the superclass, and the rest are subclasses
- “super(handleBars, frame, tyres, seatType, numGears);”

f. Mountain bikes and road bikes can be constructor either by using the default values (standard bike) or

customized to the client’s needs. Using the following table identify sample values assigned to one of each

type of standard bike: