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CPSC 220

Project 5

**Banking Application**

This program is a banking application that allows a user to set up both a main and savings account.. The application itself allows a user to check their balance in real time, deposit or withdraw money into either account, and transfer money between both accounts. After the user has inputted their name, age, and password, they will be asked to input an initial amount into their main account, with the option of adding more into their savings. Withdrawals and deposits are password protected, so the user must input their password before the action can be carried out by the program.

**Instructions**

Simply run the main program and provide all the necessary input (i.e. first and last name, age, password, and an initial deposit). Then follow the given prompts on the ‘homepage’ to carry out withdrawals, deposits, and transfers.

**Sample Input/Output #1**

Welcome to the Bank Application! First, let's get you set up with an account:

Please provide your first and last name:

Jane Doe

Next, please provide your age:

19

Now input a password that will give access to your account (Don't forget it!):

password1

Please provide some money for your account balance:

5000

Would you like to put an additional amount into your savings? Type 'Y' or 'N':

n

No problem! You can always transfer money to your savings account via the homepage!

Creating your new account...Done!

Homepage: What would you like to do? Type 'W' for withdraw, 'B' to check your balance, 'D' to deposit money, 'T' to transfer between accounts, or 'done' to exit the app:

b

Account balance as of Tue Apr 21 13:56:24 EDT 2020: $5000.0 dollars

Savings balance as of Tue Apr 21 13:56:24 EDT 2020: $0.0 dollars

Homepage: What would you like to do? Type 'W' for withdraw, 'B' to check your balance, 'D' to deposit money, 'T' to transfer between accounts, or 'done' to exit the app:

w

Please provide your password before withdrawing:

password1

Which account would you like to withdraw from? Type 'M' for the main account or 'S' for savings:

m

How much money would you like to withdraw? 300

Withdrawing $300.0 from your account...

Homepage: What would you like to do? Type 'W' for withdraw, 'B' to check your balance, 'D' to deposit money, 'T' to transfer between accounts, or 'done' to exit the app:

done

Thank you for using the Bank Application!

**Sample Input/Output #2**

Welcome to the Bank Application! First, let's get you set up with an account:

Please provide your first and last name:

John Doe

Next, please provide your age:

29

Now input a password that will give access to your account (Don't forget it!):

password2

Please provide some money for your account balance:

6000

Would you like to put an additional amount into your savings? Type 'Y' or 'N':

y

How much?

1000

Creating your new account...Done!

Homepage: What would you like to do? Type 'W' for withdraw, 'B' to check your balance, 'D' to deposit money, 'T' to transfer between accounts, or 'done' to exit the app:

b

Account balance as of Tue Apr 21 13:59:34 EDT 2020: $6000.0 dollars

Savings balance as of Tue Apr 21 13:59:34 EDT 2020: $1000.0 dollars

Homepage: What would you like to do? Type 'W' for withdraw, 'B' to check your balance, 'D' to deposit money, 'T' to transfer between accounts, or 'done' to exit the app:

d

Please provide your password before depositing:

password2

How much money would you like to deposit? 1000

Which account do you want to deposit your $1000.0 dollars into? Type 'M' for main account or 'S' for savings:

s

Depositing 1000.0 into your savings account...

Homepage: What would you like to do? Type 'W' for withdraw, 'B' to check your balance, 'D' to deposit money, 'T' to transfer between accounts, or 'done' to exit the app:

t

Would you like to transfer money to your main account or savings? Type 'M' for main or 'S' for savings:

m

How much would you like to transfer?

500

Transferring 500.0 from your savings account to your main account...

Homepage: What would you like to do? Type 'W' for withdraw, 'B' to check your balance, 'D' to deposit money, 'T' to transfer between accounts, or 'done' to exit the app:

b

Account balance as of Tue Apr 21 14:00:04 EDT 2020: $6500.0 dollars

Savings balance as of Tue Apr 21 14:00:04 EDT 2020: $1500.0 dollars

Homepage: What would you like to do? Type 'W' for withdraw, 'B' to check your balance, 'D' to deposit money, 'T' to transfer between accounts, or 'done' to exit the app:

done

Thank you for using the Bank Application!