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/*Name:Siddiqa Bagwan
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SYBtech2
subject: OOP
ASSIGNMENT 1*/

#include <iostream>
#include <string>
using namespace std;

class Bank_account {
private:
    float balance;

public:
    string customer_name;
    string account_type;
    int account_no;

    // Parameterized Constructor
    Bank_account(string n, string type, int number, float
acc_balance){
        customer_name=n;
        account_type=type;
        account_no=number;
        balance=acc_balance;
        cout<<”this is a parameterized constructor”<<endl;
    }

    // Deposit
    void deposit(float temp){
        balance +=temp;
        cout<<"Amount deposited successfully. Current balance:
"<<balance<<endl;
    }

    // Withdraw
    void withdraw(float temp){
        if (temp > balance){
            cout <<"Insufficient balance!" <<endl;
        } else{
            balance -=temp;
            cout <<"Withdrawal successful. Current balance: "
<<balance <<endl;
        }
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    }

    // Display information
    void display() {
        cout <<"Customer Name: " <<customer_name <<endl;
        cout <<"Account Type: " <<account_type <<endl;
        cout <<"Account Number: " <<account_no <<endl;
        cout <<"Balance: " <<balance <<endl;
    }
};

int main() {
    string name, type;
    int number;
    float acc_balance;

    cout <<"Enter customer name: ";
    cin >>name;
    cout <<"Enter account type: ";
    cin >>type;
    cout <<"Enter account number: ";
    cin >>number;
    cout <<"Enter initial balance: ";
    cin >>acc_balance;

    // Creating object using parameterized constructor
    Bank_account object1(name, type, number, acc_balance);

    int choice;
    char ch;
    float amount;

    do {
        cout <<"\nMenu:\n1. Display\n2. Deposit\n3. Withdraw\n";
        cout <<"Enter your choice: ";
        cin >>choice;

        switch (choice) {
        case 1:
            object1.display();
            break;
        case 2:
            cout <<"Enter amount to deposit: ";
            cin >>amount;
            object1.deposit(amount);
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            break;
        case 3:
            cout <<"Enter amount to withdraw: ";
            cin >>amount;
            object1.withdraw(amount);
            break;
        default:
            cout <<"Invalid choice!" <<endl;
        }

        cout <<"Do you want to continue? (y/n): ";
        cin >>ch;

    } while (ch == 'y' || ch == 'Y');

    return 0;
}
```

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OUTPUT:
Enter customer name: Siddiqa
Enter account type: savings
Enter account number: 11111
Enter initial balance: 100
this is a parameterized constructor

Menu:
1. Display
2. Deposit
3. Withdraw
Enter your choice: 1
Customer Name: Siddiqa
Account Type: savings
Account Number: 11111
Balance: 100
Do you want to continue? (y/n): y

Menu:
1. Display
2. Deposit
3. Withdraw
Enter your choice: 2
Enter amount to deposit: 100
Amount deposited successfully. Current balance: 200
Do you want to continue? (y/n): y
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Menu:
1. Display
2. Deposit
3. Withdraw
Enter your choice: 3
Enter amount to withdraw: 50
Withdrawal successful. Current balance: 150
Do you want to continue? (y/n): y

Menu:
1. Display
2. Deposit
3. Withdraw
Enter your choice: 3
Enter amount to withdraw: 250
Insufficient balance!

Do you want to continue? (y/n): n
PS C:\Users\Hp\Desktop>
```