

OOP Assignment - 01

Employee Information System

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PROBLEM STATEMENT: Implement a class to illustrate working of a bank account of a customer that consists of the following members.

CODE

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

class bank_account {
    string account_name, account_type;
    int account_no;
    float balance;

public:
    void accept();
    void display();
    void deposit(float amount);
    void withdraw(float amount);
};

void bank_account::accept() {
    cout << "Enter the name: ";
    cin >> account_name;
    cout << "Enter the account type: ";
    cin >> account_type;
    cout << "Enter the account number: ";
    cin >> account_no;
    cout << "Enter initial balance: ";
    cin >> balance;
}
```

```
void bank_account::display() {  
    cout << "\nAccount Details:\n";  
    cout << "Name: " << account_name << endl;  
    cout << "Account Type: " << account_type << endl;  
    cout << "Account Number: " << account_no << endl;  
    cout << "Balance: $" << balance << endl;  
}
```

```
void bank_account::deposit(float amount) {  
    if (amount > 0) {  
        balance += amount;  
        cout << "Deposited: $" << amount << endl;  
    } else {  
        cout << "Invalid deposit amount" << endl;  
    }  
}
```

```
void bank_account::withdraw(float amount) {  
    if (amount <= 0) {  
        cout << "Invalid withdrawal amount" << endl;  
    } else if (amount > balance) {  
        cout << "Insufficient balance" << endl;  
    } else {  
        balance -= amount;  
        cout << "Withdrawn: $" << amount << endl;  
    }  
}
```

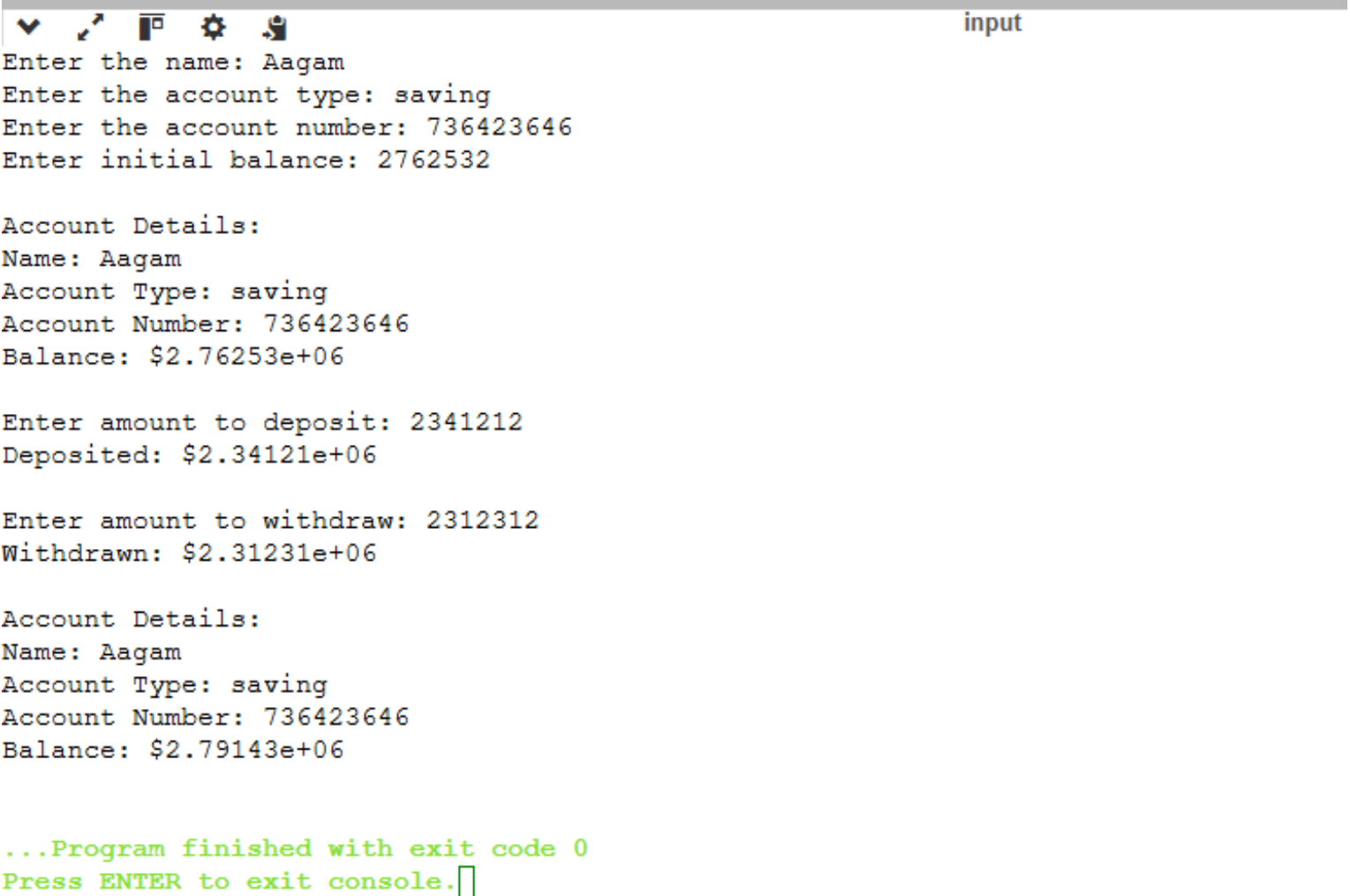
```
int main() {  
    bank_account obj1;  
  
    obj1.accept();  
    obj1.display();  
  
    float amount;  
    cout << "\nEnter amount to deposit: ";
```

```
    cin >> amount;
    obj1.deposit(amount);

    cout << "\nEnter amount to withdraw: ";
    cin >> amount;
    obj1.withdraw(amount);
    obj1.display();

    return 0;
}
```

Output



```
Enter the name: Aagam
Enter the account type: saving
Enter the account number: 736423646
Enter initial balance: 2762532

Account Details:
Name: Aagam
Account Type: saving
Account Number: 736423646
Balance: $2.76253e+06

Enter amount to deposit: 2341212
Deposited: $2.34121e+06

Enter amount to withdraw: 2312312
Withdrawn: $2.31231e+06

Account Details:
Name: Aagam
Account Type: saving
Account Number: 736423646
Balance: $2.79143e+06

...Program finished with exit code 0
Press ENTER to exit console. □
```