CODE ALPHA

C ++ PROGRAMMING

TASK#03

#include <iostream>

#include <vector>

#include <string>

using namespace std;

class Account {

public:

string accountNumber;

double balance;

string accountType;

Account(string accNum, string accType) {

accountNumber = accNum;

balance = 0.0;

accountType = accType;

}

void deposit(double amount) {

balance += amount;

cout << "Deposited: $" << amount << "\nNew Balance: $" << balance << endl;

}

void withdraw(double amount) {

if (amount > balance) {

cout << "Insufficient balance!" << endl;

} else {

balance -= amount;

cout << "Withdrew: $" << amount << "\nNew Balance: $" << balance << endl;

}

}

void displayBalance() {

cout << "Account Number: " << accountNumber << "\nBalance: $" << balance << endl;

}

};

class Customer {

public:

string customerID;

string name;

string address;

string phoneNumber;

Account account;

Customer(string id, string cname, string addr, string phone, string accNum, string accType)

: account(accNum, accType) {

customerID = id;

name = cname;

address = addr;

phoneNumber = phone;

}

void viewAccountDetails() {

cout << "Customer ID: " << customerID << "\nName: " << name

<< "\nAddress: " << address << "\nPhone: " << phoneNumber << endl;

account.displayBalance();

}

};

int main() {

// Creating a customer with an account

Customer customer1("C001", "John Doe", "123 Elm St", "555-1234", "A001", "Checking");

// Performing operations on the account

customer1.account.deposit(1000); // Deposit $1000

customer1.account.withdraw(500); // Withdraw $500

customer1.account.displayBalance(); // Display current balance

// Viewing customer account details

customer1.viewAccountDetails();

return 0;

}

RESULT:

