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**Roll Number: 45**

**Experiment Number: 4**

**Title: ATM Machine**

**Theory:** The code simulates a basic ATM machine interface for users, allowing them to check their balance, deposit money, withdraw money, or exit the system. It uses a while loop to continuously prompt the user for actions until they choose to exit, and has switch-case statements to execute the corresponding functionalities based on user input. The program maintains and updates the user's account balance throughout the interactions.

**Code://This code shows the process of an atm machine from user side**

**#include <iostream>**

**using namespace std;**

**int main() {**

**float balance = 50000.0;**

**int choice;**

**float amount;**

**while (true) {**

**cout << "\t\t XYZ ATM \t\t" << endl;**

**cout << "\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*" << endl;**

**cout << "1. Check Balance \t\t 2.Deposit Money\n" << endl;**

**cout << "3. Withdraw Money \t\t 4.Exit" << endl;**

**cout << "\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*" << endl;**

**cout << "Enter your choice: ";**

**cin >> choice;**

**switch (choice) {**

**case 1:**

**cout << "Your balance is: ₹" << balance << "\n"<<endl;**

**break;**

**case 2:**

**cout << "Enter the amount to deposit: ₹";**

**cin >> amount;**

**if (amount > 0) {**

**balance += amount;**

**cout << "Deposited ₹" << amount << " successfully.\n" << endl;**

**} else {**

**cout << "Invalid amount. Please enter a positive amount.\n" << endl;**

**}**

**break;**

**case 3:**

**cout << "Enter the amount to withdraw: ₹";**

**cin >> amount;**

**if (amount > 0 && amount <= balance) {**

**balance -= amount;**

**cout << "Withdrawn ₹" << amount << " successfully.\n" << endl;**

**} else if (amount > balance) {**

**cout << "Insufficient balance.\n" << endl;**

**} else {**

**cout << "Invalid amount. Please enter a positive amount.\n" << endl;**

**}**

**break;**

**case 4:**

**cout << "Exiting the ATM. Have a nice day!" << endl;**

**return 0;//ends entire main function's execution without runtime error**

**default:**

**cout << "Invalid choice. Please select a valid option.\n" << endl;**

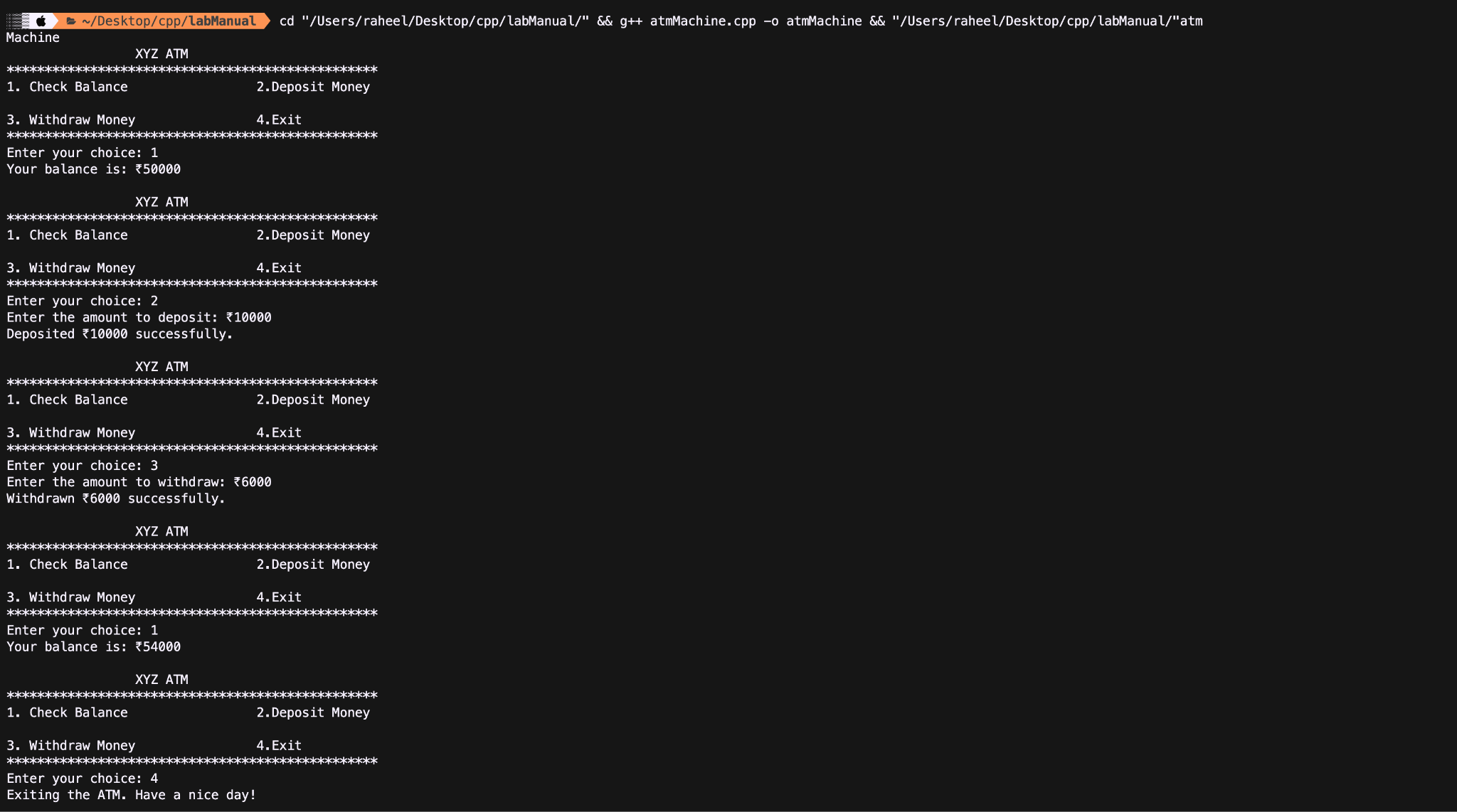
**break;**

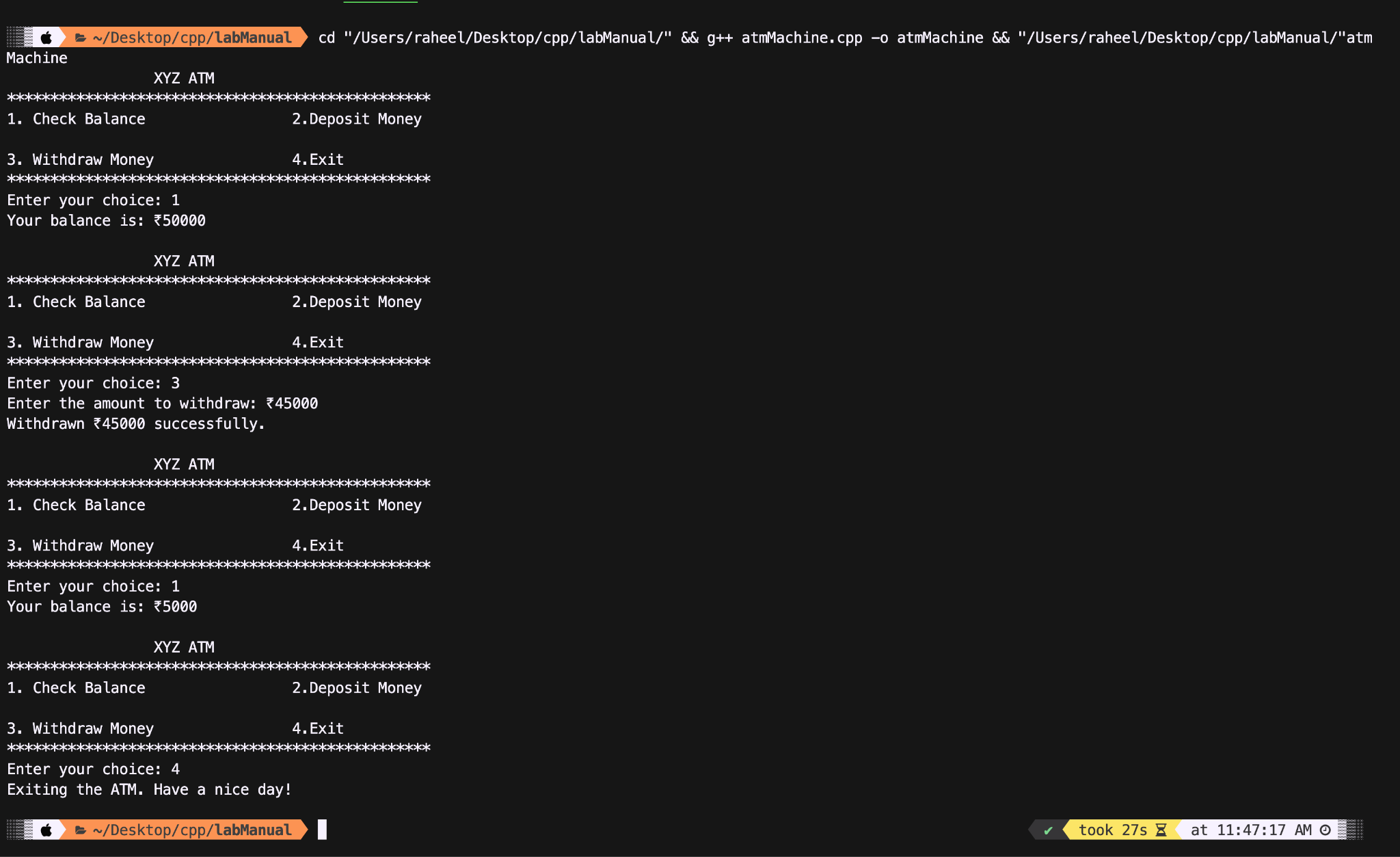
**}**

**}//loop to continue till user wants to exit**

**return 0;**

**}**

**Output:(screenshot):**

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