**Program:**

#include <iostream>

#include <string>

using namespace std;

class Payment {

public:

    // Overloaded function for Credit Card Payment

    void makePayment(string cardNumber, string expiryDate, string cvv) {

        cout << "\n[Credit Card Payment]" << endl;

        cout << "Processing payment with Credit Card..." << endl;

        cout << "Card Number: " << cardNumber << endl;

        cout << "Expiry Date: " << expiryDate << endl;

        cout << "CVV: " << cvv << endl;

        cout << "Payment Successful!" << endl;

    }

    // Overloaded function for Debit Card Payment

    void makePayment(string cardNumber, string expiryDate, string cvv, string pin) {

        cout << "\n[Debit Card Payment]" << endl;

        cout << "Processing payment with Debit Card..." << endl;

        cout << "Card Number: " << cardNumber << endl;

        cout << "Expiry Date: " << expiryDate << endl;

        cout << "CVV: " << cvv << endl;

        cout << "PIN: \*\*\*\*" << endl; // PIN is masked for security

        cout << "Payment Successful via Debit Card!" << endl;

    }

    // Overloaded function for UPI Payment

    void makePayment(string upiID) {

        cout << "\n[UPI Payment]" << endl;

        cout << "Processing payment via UPI..." << endl;

        cout << "UPI ID: " << upiID << endl;

        cout << "Payment Successful via UPI." << endl;

    }

    // Overloaded function for Wallet Payment

    void makePayment(string walletName, double amount) {

        cout << "\n[Wallet Payment]" << endl;

        cout << "Processing payment from Wallet..." << endl;

        cout << "Wallet: " << walletName << endl;

        cout << "Amount: Rs. " << amount << endl;

        cout << "Payment Successful via Wallet." << endl;

    }

};

int main() {

    cout << "===== Welcome to Online Shopee Payment Gateway =====" << endl;

    Payment p;

    // Call different overloaded functions to simulate various payment types

    // 1. Credit card payment

    p.makePayment("1234-5678-9876-5432", "12/26", "698");

    // 2. Debit card payment

    p.makePayment("9876-5432-1234-5678", "11/27", "456", "4321");

    // 3. UPI payment

    p.makePayment("customer@okbank");

    // 4. Wallet payment

    p.makePayment("MyWallet", 75.50);

    return 0;

}

**OUTPUT:**

PS C:\Users\btm9d\Desktop\College\CPP> g++ Ass-1B.cpp

PS C:\Users\btm9d\Desktop\College\CPP> ./a.exe

===== Welcome to Online Shopee Payment Gateway =====

[Credit Card Payment]

Processing payment with Credit Card...

Card Number: 1234-5678-9876-5432

Expiry Date: 12/26

CVV: 698

Payment Successful!

[Debit Card Payment]

Processing payment with Debit Card...

Card Number: 9876-5432-1234-5678

Expiry Date: 11/27

CVV: 456

PIN: \*\*\*\*

Payment Successful via Debit Card!

[UPI Payment]

Processing payment via UPI...

UPI ID: customer@okbank

Payment Successful via UPI.

[Wallet Payment]

Processing payment from Wallet...

Wallet: MyWallet

Amount: Rs. 75.5

Payment Successful via Wallet.

PS C:\Users\btm9d\Desktop\College\CPP>