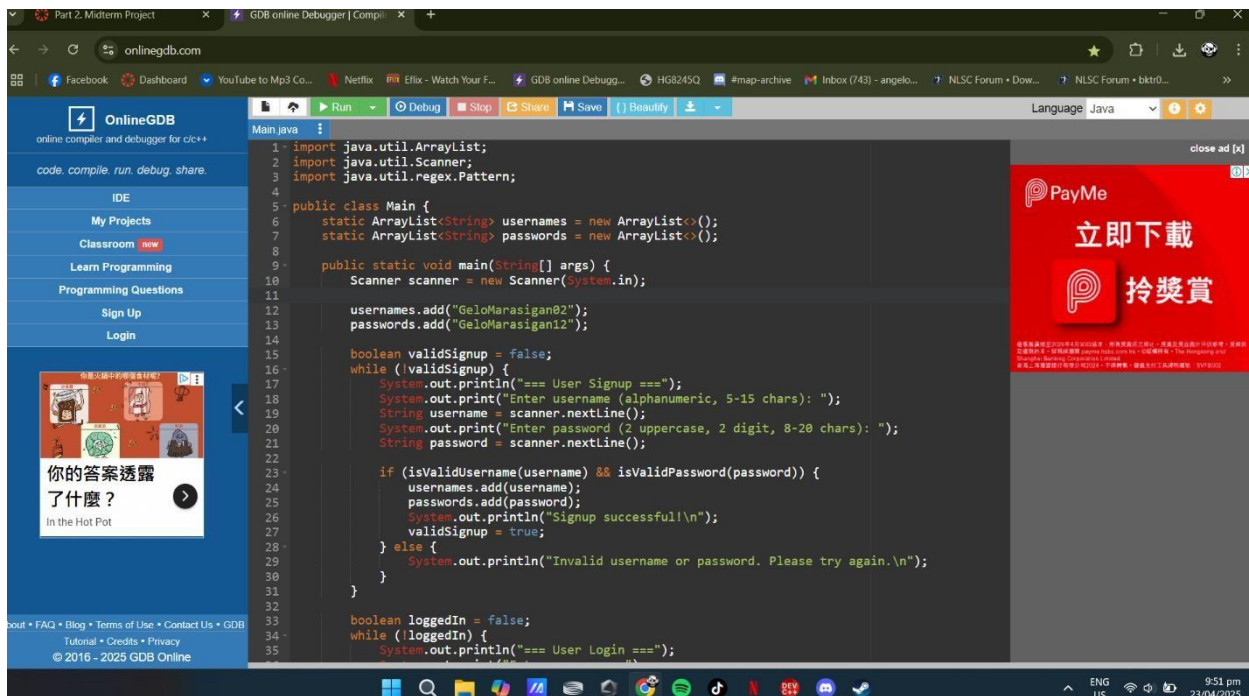


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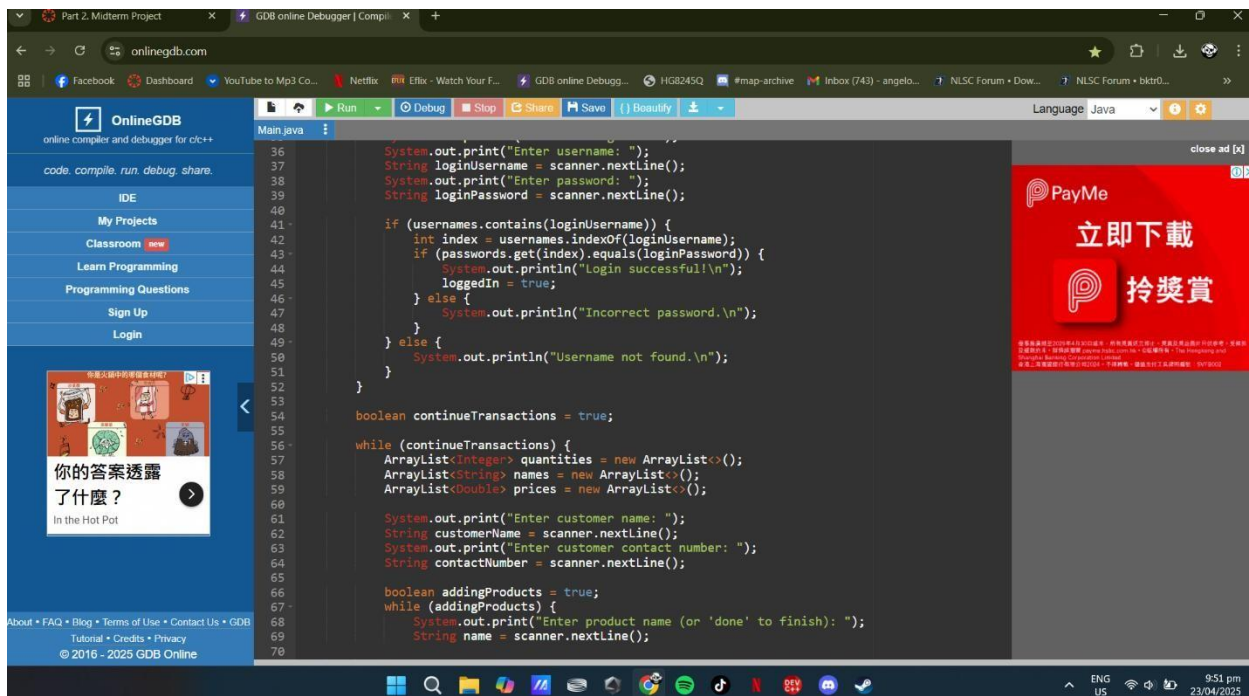
## PART 2 COMPROG



The screenshot shows the OnlineGDB IDE interface. The left sidebar contains navigation links: OnlineGDB, code, compile, run, debug, share, IDE, My Projects, Classroom, Learn Programming, Programming Questions, Sign Up, and Login. The main editor displays a Java file named 'Main.java' with the following code:

```
1 import java.util.ArrayList;
2 import java.util.Scanner;
3 import java.util.regex.Pattern;
4
5 public class Main {
6     static ArrayList<String> usernames = new ArrayList<>();
7     static ArrayList<String> passwords = new ArrayList<>();
8
9     public static void main(String[] args) {
10         Scanner scanner = new Scanner(System.in);
11
12         usernames.add("GeloMarasigan02");
13         passwords.add("GeloMarasigan12");
14
15         boolean validSignup = false;
16         while (!validSignup) {
17             System.out.println("=== User Signup ===");
18             System.out.print("Enter username (alphanumeric, 5-15 chars): ");
19             String username = scanner.nextLine();
20             System.out.print("Enter password (2 uppercase, 2 digit, 8-20 chars): ");
21             String password = scanner.nextLine();
22
23             if (isValidUsername(username) && isValidPassword(password)) {
24                 usernames.add(username);
25                 passwords.add(password);
26                 System.out.println("Signup successful!\n");
27                 validSignup = true;
28             } else {
29                 System.out.println("Invalid username or password. Please try again.\n");
30             }
31         }
32
33         boolean loggedIn = false;
34         while (!loggedIn) {
35             System.out.println("=== User Login ===");
```

The right sidebar features a large red advertisement for PayMe with the text '立即下載' (Download Now) and '拎獎賞' (Get Rewards). The bottom status bar shows the language is set to Java, and the system clock indicates 9:51 pm on 23/04/2025.



The screenshot shows the OnlineGDB IDE interface with the same 'Main.java' file. The code continues from the previous screenshot:

```
36         System.out.print("Enter username: ");
37         String loginUsername = scanner.nextLine();
38         System.out.print("Enter password: ");
39         String loginPassword = scanner.nextLine();
40
41         if (usernames.contains(loginUsername)) {
42             int index = usernames.indexOf(loginUsername);
43             if (passwords.get(index).equals(loginPassword)) {
44                 System.out.println("Login successful!\n");
45                 loggedIn = true;
46             } else {
47                 System.out.println("Incorrect password.\n");
48             }
49         } else {
50             System.out.println("Username not found.\n");
51         }
52     }
53
54     boolean continueTransactions = true;
55     while (continueTransactions) {
56         ArrayList<Integer> quantities = new ArrayList<>();
57         ArrayList<String> names = new ArrayList<>();
58         ArrayList<Double> prices = new ArrayList<>();
59
60         System.out.print("Enter customer name: ");
61         String customerName = scanner.nextLine();
62         System.out.print("Enter customer contact number: ");
63         String contactNumber = scanner.nextLine();
64
65         boolean addingProducts = true;
66         while (addingProducts) {
67             System.out.print("Enter product name (or 'done' to finish): ");
68             String name = scanner.nextLine();
69
70             // ... (code continues)
```

The right sidebar still displays the PayMe advertisement. The bottom status bar remains the same, showing 9:51 pm on 23/04/2025.

