

```

1  import java.util.*;
2  public class certificatevalidation {
3      public static void main(String[] args) {
4          Map<String, Date> certificates = new HashMap<>();
5          certificates.put("12345", new GregorianCalendar( year: 2025, Calendar.DECEMBER, dayOfMonth: 31).getTime());
6          certificates.put("67890", new GregorianCalendar( year: 2023, Calendar.NOVEMBER, dayOfMonth: 30).getTime());
7          certificates.put("ABCDE", new GregorianCalendar( year: 2024, Calendar.MARCH, dayOfMonth: 15).getTime());
8
9          Date currentDate = new Date();
10
11         Scanner scanner = new Scanner(System.in);
12         System.out.println("Enter the certificate serial number:");
13         String userSerial = scanner.nextLine();
14
15         if (certificates.containsKey(userSerial)) {
16             Date expirationDate = certificates.get(userSerial);
17             if (currentDate.before(expirationDate)) {
18                 System.out.println("Certificate Status: VALID");
19                 System.out.println("Valid Until: " + expirationDate);
20             } else {
21                 System.out.println("Certificate Status: INVALID (Expired)");
22             }
23         } else {
24             System.out.println("Certificate Status: INVALID (Fake or Not Found)");
25         }
26         scanner.close();
27     }
28 }

```

Output

Clear

```

Enter the certificate serial number:
12345
Certificate Status: VALID
Valid Until: Wed Dec 31 00:00:00 GMT 2025

```

Output

Clear

```

Enter the certificate serial number:
67890
Certificate Status: INVALID (Expired)

```

Output

Clear

```

Enter the certificate serial number:
99999
Certificate Status: INVALID (Fake or Not Found)

```