

Task 2

```
1 using System;
2 using System.Text.RegularExpressions;
3
4 class Program
5 {
6     static void Main()
7     {
8         Console.Write("Enter password: ");
9         string password = Console.ReadLine();
10
11         if (IsValidPassword(password))
12         {
13             Console.WriteLine("Password is valid.");
14         }
15     }
16     else
17     {
18         Console.WriteLine("Password is invalid.");
19     }
20 }
21
22 static bool IsValidPassword(string password)
23 {
24     if (password.Length < 6 || password.Length > 12)
25         return false;
26
27     // Fully fixed regex pattern
28     string pattern = @"^(?=.*[A-Z])(?=.*[a-z])(?=.*\W)(?=.*\d){6,12}$";
29
30     return Regex.IsMatch(password, pattern);
31 }
```

output

```
Enter password: S@ra#25
Password is valid.
```