

```
1 package emailValidation;
2
3 //import packages
4 import java.util.ArrayList;
5
6
7
8
9
10 public class RegexEmail {
11
12     // Regular Expression:
13     // private static final String regex = "[a-zA-Z0-9_!#$%&'*/+=?`{|}~^.-]+@[a-zA-Z0-9.-]+$";
14     //A-Z characters, a-z characters, 0-9 digits, Underscore(_), dash(-), and dot(.) are permitted, Other characters are not permitted
15     private static final String regex = "[A-Za-z0-9+_.-]+@[A-Za-z0-9.-]+$";
16
17     public static void main(String[] args) {
18
19         //adding email to an array list
20
21         ArrayList<String> emails = new ArrayList<String>();
22
23         // valid email addresses
24         emails.add("sofia@gmail.com");
25         emails.add("nayak.sofi@ex.co.in");
26         emails.add("sofi1@example.do.org");
27         emails.add("shagun_sofi@example.com");
28         emails.add("sofi-sh@example.com");
29
30
31         //invalid email addresses
32         emails.add("@gmail.com");
33         emails.add("shagun&ag.com");
34         emails.add("raghu#@example.us.org");
35
36         //initialize the Pattern object
37         Pattern pattern = Pattern.compile(regex);
38
39         //searching for occurrences of regex
40         for (String value : emails) {
41             Matcher matcher = pattern.matcher(value);
42             System.out.println("Email " + value + " is " + (matcher.matches() ?
43 "valid" : "invalid"));
44             System.out.println
45 ("-----");
46
47             boolean result = Pattern.compile(regex).matcher(value).matches();
48             System.out.println(result);
49         }
50     }
51 }
```

RegexEmail.java

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```
47         }
48
49     }
50
51 }
52
```