

```

package com.section06.emailidValidation;

import java.util.*;

import java.util.regex.*;

class EmailSearch extends EmailSearchApp
{
    String[] emailArray =
    {
        "Venu.123@gmail.com",
        "smith_ghv.gh@bangalore.com",
        "a.abc@tcs.com",
        "abc@Simplilearn.com",
        "MarkZukerberg@facebook.com",
        "ElonMusk@SpaceX.com"
    };

    void emailIdValidation(String userInput)
    {
        Map<String, Boolean> emailMap = new HashMap<>();

        for (String email : emailArray)
        {
            emailMap.put(email, true);
        }

        Pattern emailPattern = Pattern.compile("^[A-Za-z0-9+_.-]+@(.+)$");

        Matcher matcher = emailPattern.matcher(userInput);

        Boolean matcher1 = userInput.contains("@");
        Boolean matcher2 = userInput.contains(".com");

        if (matcher.matches())

```

```
{

if (matcher1==true&&matcher2==true)
{
    System.out.println("You Have enterd an Email-id \nLet, me check..... \nLoading..... ");

    if (emailMap.containsKey(userInput))
    {
        System.out.println("CONGRATS !!\nWe Found your Email ID in the List");
    }
    else
    {
        System.out.println("SORRY !!\nWe Could not find your Email ID in the List");
    }
}
}
else
{
    System.out.println("Invalid email format.");
}
}
}
```

```
package com.section06.emailIdValidation;
```

```
import java.util.*;
```

```
public class EmailSearchApp
```

```
{
```

```
    public static void main(String[] args)
```

```
    {
```

```
        Scanner scanner = new Scanner(System.in);
```

```
        System.out.print("Enter an email ID to search: ");
```

```
        String userInput = scanner.nextLine();
```

```
        EmailSearch e = new EmailSearch();
```

```
        e.emailIdValidation(userInput);
```

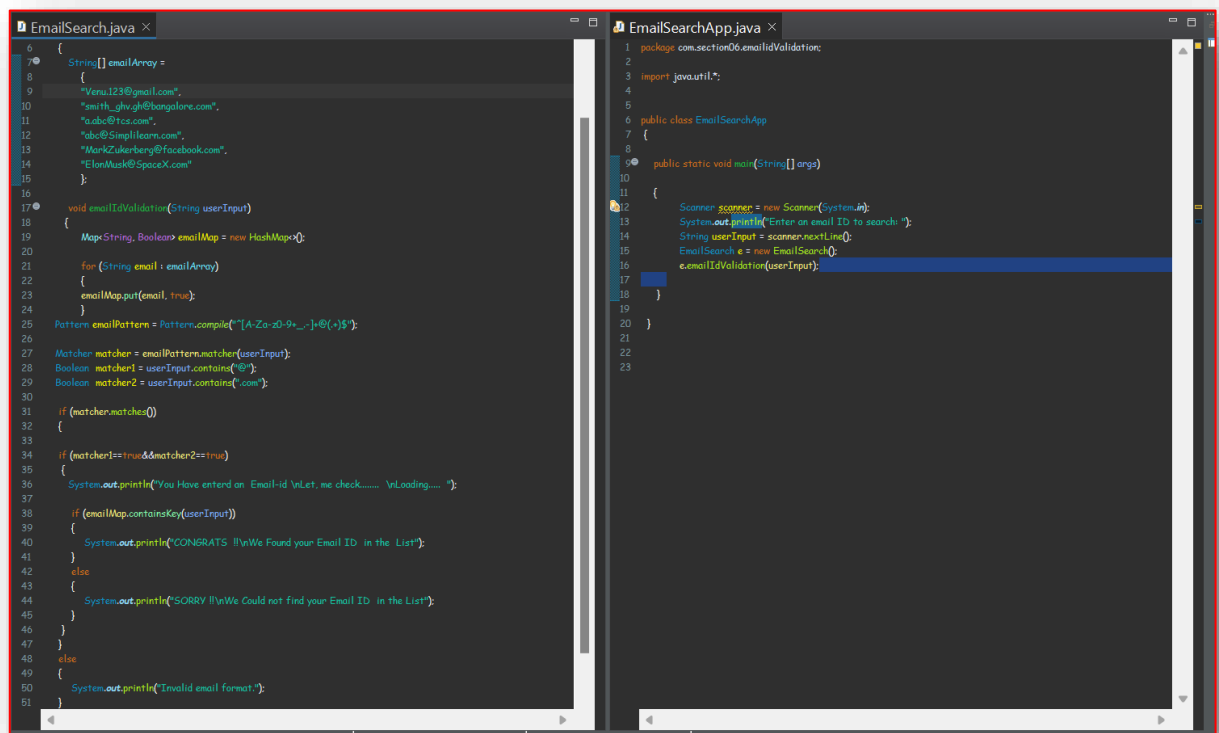
```
    }
```

```
}
```

SOURCE CODE

class EmailSearch
(Method)

class EmailSearchApp
(Main Method)



The image shows two side-by-side code editors displaying Java source code. The left editor, titled 'EmailSearch.java', contains a class with a static array of email addresses, a validation method, and a main method. The right editor, titled 'EmailSearchApp.java', contains a package declaration, an import statement, and a main method that creates an instance of the EmailSearch class and calls its validation method.

```
6 {
7     String[] emailArray =
8     {
9         "Venu.123@gmail.com",
10        "smith_ghv.gh@bangalore.com",
11        "aabc@tcs.com",
12        "abc@Simplilearn.com",
13        "MarkZuckerberg@facebook.com",
14        "ElonMusk@SpaceX.com"
15    };
16
17    void emailIdValidation(String userInput)
18    {
19        Map<String, Boolean> emailMap = new HashMap<>();
20
21        for (String email : emailArray)
22        {
23            emailMap.put(email, true);
24        }
25
26        Pattern emailPattern = Pattern.compile("[A-Za-z0-9_.-]+@(.+)$");
27
28        Matcher matcher = emailPattern.matcher(userInput);
29        Boolean matcher1 = userInput.contains("@");
30        Boolean matcher2 = userInput.contains(".com");
31
32        if (matcher.matches())
33        {
34            if (matcher1==true&&matcher2==true)
35            {
36                System.out.println("You Have entered an Email-id \nLet me check..... \nLoading.... ");
37
38                if (emailMap.containsKey(userInput))
39                {
40                    System.out.println("CONGRATS !!\nWe Found your Email ID in the List");
41                }
42                else
43                {
44                    System.out.println("SORRY !!\nWe Could not find your Email ID in the List");
45                }
46            }
47            else
48            {
49                System.out.println("Invalid email format");
50            }
51        }
52    }
53 }
```

```
1 package com.section06.emailIdValidation;
2
3 import java.util.*;
4
5 public class EmailSearchApp
6 {
7
8     public static void main (String[] args)
9     {
10
11         Scanner scanner = new Scanner(System.in);
12         System.out.println("Enter an email ID to search: ");
13         String userInput = scanner.nextLine();
14         EmailSearch e = new EmailSearch();
15         e.emailIdValidation(userInput);
16     }
17
18 }
19
20
21
22
23
```