VALIDATION OF AN EMAIL ID PROJECT SOURCE CODE

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USING REGEX

```java
import java.util.regex.*;
import java.util.*;
public class EmailValidationRegex {
  public static void main(String args[]){
      ArrayList<String> emails = new ArrayList<String>();

      emails.add("Priyanka@domain.co.in");
      emails.add("priYanka@domain.com");
      emails.add("priyaNka.name@domain.com");
      emails.add("pRiyanka#@domain.co.in");
      emails.add("priyankat@domain.com");
      emails.add(".priyankat@yahoo.com");
      emails.add("priyanka@domain.com.");
      emails.add("priyanka#domain.com");
      emails.add("priyanka@domain..com");
      //Regular Expression
      String regex = "^[a-zA-Z0-9_!#$%&'*+/=?`{|}~^-]+(?:\\.[a-
zA-Z0-9_!#$%&'*+/=?`{|}~^-]+)*@[a-zA-Z0-9-]+(?:\\.[a-zA-Z0-
9-]+)*$";

      //Compile regular expression to get the pattern
      Pattern pattern = Pattern.compile(regex);
      //Iterate emails array list
      for(String email : emails){
         //Create instance of matcher
         Matcher matcher = pattern.matcher(email);
         System.out.println(email +" : "+
matcher.matches()+"\n");
      }
   }
}
```

USING STRING

```java
import java.util.Arrays;

import java.util.Scanner;

public class Email_Validation {
public static void main(String[] args){

    String[] emailList = new String[10];

    emailList[0] = "BTS@0000.com";
    emailList[1] = "RM@s1111.com";
    emailList[2] = "Jimin@2222.com";
    emailList[3] = "Jin@3333.com";
    emailList[4] = "Jungkook@4444.com";
    emailList[5] = "Suga@5555.com";
    emailList[6] = "Jhope@6666.com";
    emailList[7] = "Taehyung@7777.com";
    emailList[8] = "Dynamite@8888.com";
    emailList[9] = "Butter@9999.com";

    Scanner sc = new Scanner(System.in);
    System.out.println("Email addresses in current Array: " +
Arrays.toString(emailList));
```

USING STRING

```java
    System.out.println("\nEnter an email address OR email id to check if there is an associated email address in "+
            "the Array.");
    System.out.println("Note: email addresses and ids are case sensitive!");

    String searchStr = sc.nextLine();

    System.out.println(checkIfEmailExists(searchStr, emailList));
    }
// Method is only used for the Array implementation
    private static String checkIfEmailExists(String searchStr, String[] emailList){
        for (String s : emailList) {
            if (s.toLowerCase().equals(searchStr.toLowerCase()) ||
                    searchStr.toLowerCase().equals(s.substring(0, s.indexOf('@')).toLowerCase()))
                return "\n\"" + searchStr + "\"" + " exists in the Array!\n" + "Matched email: " + s;
        }
        return "\""+searchStr+"\""+" does not exist in the Array.";
    }


}
}
```

THE END