package com.simpliLearn.first;  
  
import java.util.Arrays;  
import java.util.Scanner;  
import java.util.regex.Matcher;  
import java.util.regex.Pattern;  
  
public class EmailValidation {  
  
 public static void main(String[] args) {  
  
 //Initialize 10 Sample email Ids  
 String EmailIds[] = {  
 "a1@mail.com",  
 "b2@mail.com",  
 "c3@mail.com",  
 "d4@mail.com",  
 "e5@mail.com",  
 "f6@mail.com",  
 "g7@mail.com",  
 "h8@mail.com",  
 "i9@mail.com",  
 "j10@mail.com"  
 };  
 boolean found = false;  
 int pos = 0;  
  
 //Scanner to get user input  
 Scanner sc = new Scanner(System.*in*);  
 System.*out*.println("Please enter the valid Email ID: ");  
 String searchEmail = sc.nextLine();  
  
  
 //Validation  
 Pattern pattern = Pattern.*compile*("^[a-zA-Z0-9+\_.-]+@[a-zA-Z0-9.-]+$");  
 Matcher matcher = pattern.matcher(searchEmail);  
  
 //If Email ID pattern is valid, search for the ID in an array.  
 if (matcher.matches()) {  
 System.*out*.println("Searching for " + searchEmail + " .....");  
  
 //For loop to Search for email ID in an array  
 for (String EmailId : EmailIds) {  
 if (EmailId.equalsIgnoreCase(searchEmail)) {  
 found = true;  
 pos = Arrays.*asList*(EmailIds).indexOf(EmailId);  
 break;  
 } else {  
 found = false;  
 }  
 }  
 if(found)  
 System.*out*.println(searchEmail + " found" + " at position : "+(pos+1));  
 else  
 System.*out*.println(searchEmail + " Not Found !!");  
 }  
  
 //Else --> Invalid Email ID Pattern  
 else  
 System.*out*.println("Invalid Email ID, Please Enter the valid Email ID.");  
 }  
}