|  |  |  |
| --- | --- | --- |
| **LAB211 Assignment** | **Type:** | **Short Assignment** |
| **Code:** | **J1.S.P0064** |
| **LOC:** | **30** |
| **Slot(s):** | **1** |

**Title**

Check data format.

**Background**

N/A

**Program Specifications**

Create a program that allows inputting phone number, email, Date and checking their format

* Input phone number must be numbers.
* Input phone number must contain 10 numbers.
* Input email must follow standard email format.
* Input date must follow the dd/MM/yyyy format.

***Function details:***

**Function 1:** Display GUI and Input Data.

* Users run the program. The program prompts users to input Data.
* Auto next **Function** **2**.

**Function 2:** Perform function

* The program checks the format of the input phone number, email and date.

Display the messages on the screen and Exit the program.

***Expectation of User interface:***

====== Validate Progaram ======  
Phone number: 099999888  
Phone number must be 10 digits

Phone number:abc  
Phone number must is number  
Phone number: 099999888

Email: abc  
Email must is correct format  
Email: nghianv@ftico.com

Date: abc  
Date to correct format(dd/mm/yyyy) Date: 15/06/2015

1

2

3

**Guidelines**

**Student must implement the methods**

* checkPhone
* checkDate
* checkEmail

**in startup code.**

**Suggestion**:

Use regex to check the format of Phone and Email.

Use SimpleDateFormat to check the format of Date.

**Function1:** Check the Phone format

* The program requires inputting Phone. It returns the message if the input value is wrong or returns String empty if the input value is corrected.
* Function name: **public** String checkPhone(String phone)
  + Input:
* phone: Phone number.
  + Return: error message.
* If phone is not a number, the program displays the message “Phone number must be number” and requires input again.
* If the length of phone is not 10 digits, the program displays the message “Phone number must be 10 digits” and allows input again.

**Function2:** Check the date format

* The program allows to input Date. It returns the message if the input value is wrong and returns String empty if input value is correct.
* Function name: public String checkDate(String date)
  + Input:
* date: date
  + Return value: error message
* If input date format is incorrect, the program displays the message “Date to correct format(dd/MM/yyyy)” and allows input again.

**Function3:** Check email format

* The program allows to input email. It returns the error message if input value is wrong, returns String empty if input value is correct.
* Function name: public String checkEmail(String email)
  + Input:
* email: Email
  + Return: error message.
* If the input email format is incorrect, the program displays the message “Email must be correct format” and allows to input again.