

# LAB211 Assignment

Type:  
Code:  
LOC:  
Slot(s):

Short Assignment  
J1.S.P0064  
30  
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: <account name>@<domain> (domain must contain the extent section for example “.vn”, “.edu”..
- Input date must follow the dd/MM/yyyy format.

### Function details:

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

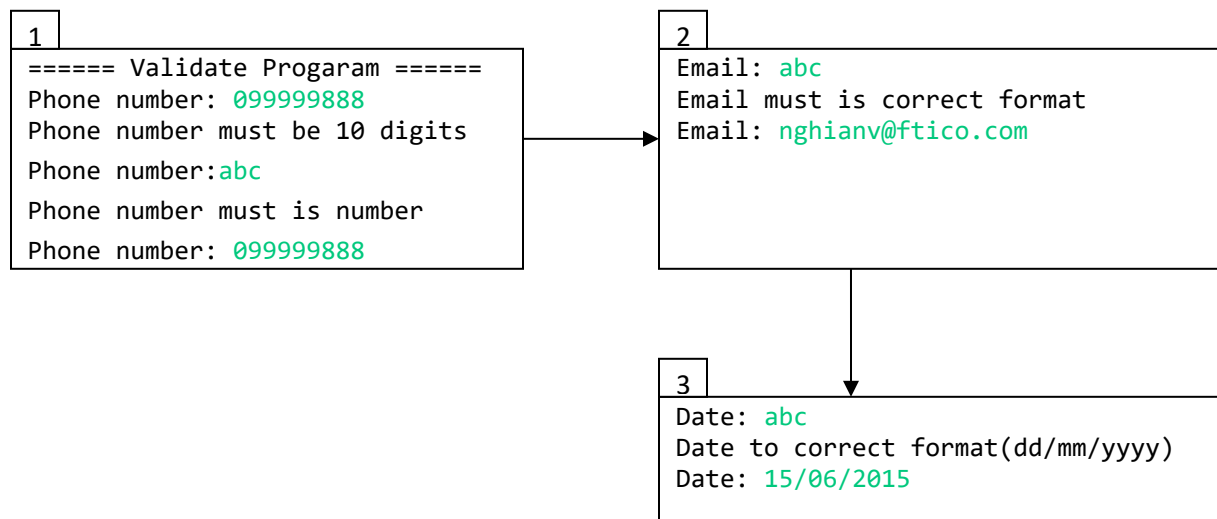
- Users run the program. The program prompts users to input Data.
- Auto next **Function 2**.

**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:



## 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.