

LAB211 Assignment

Type:
Code:
LOC:
Slot(s):

Short Assignment
J1.S.P0018
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.
- Input date must follow the dd/MM/yyyy format.

Function details:

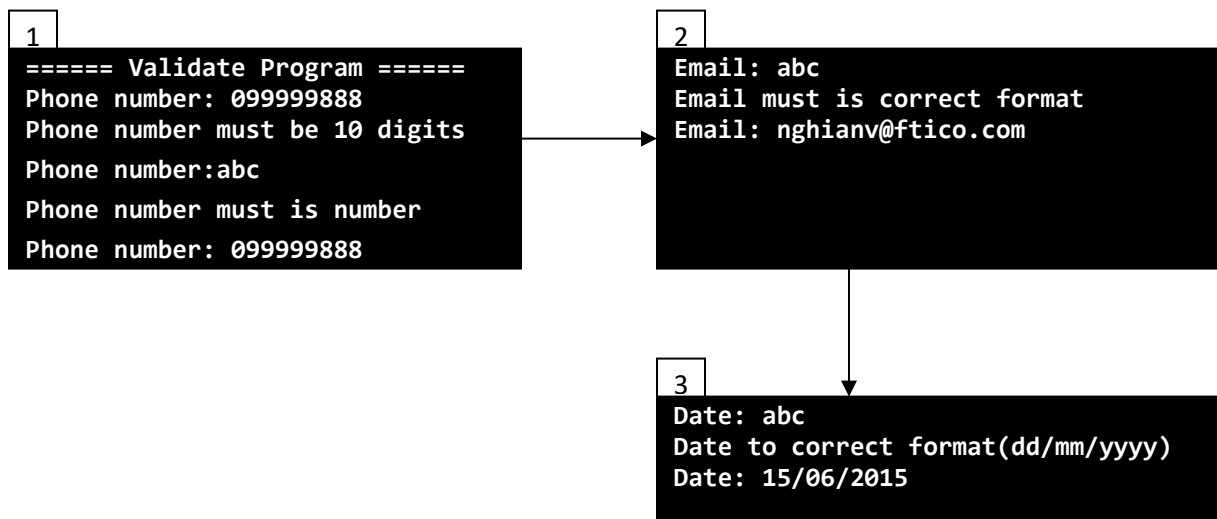
Function 1: Display GUI and Input Data.

- 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.