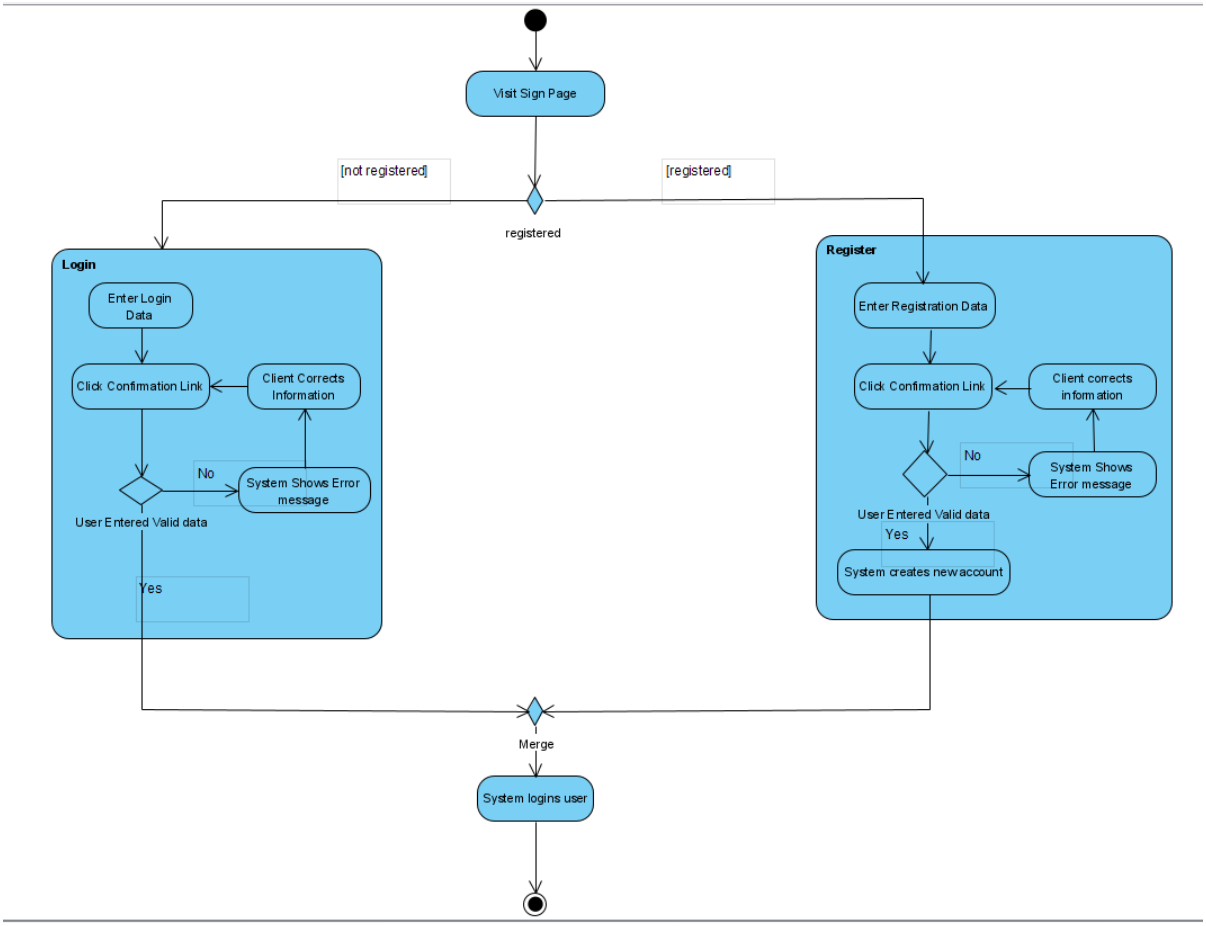
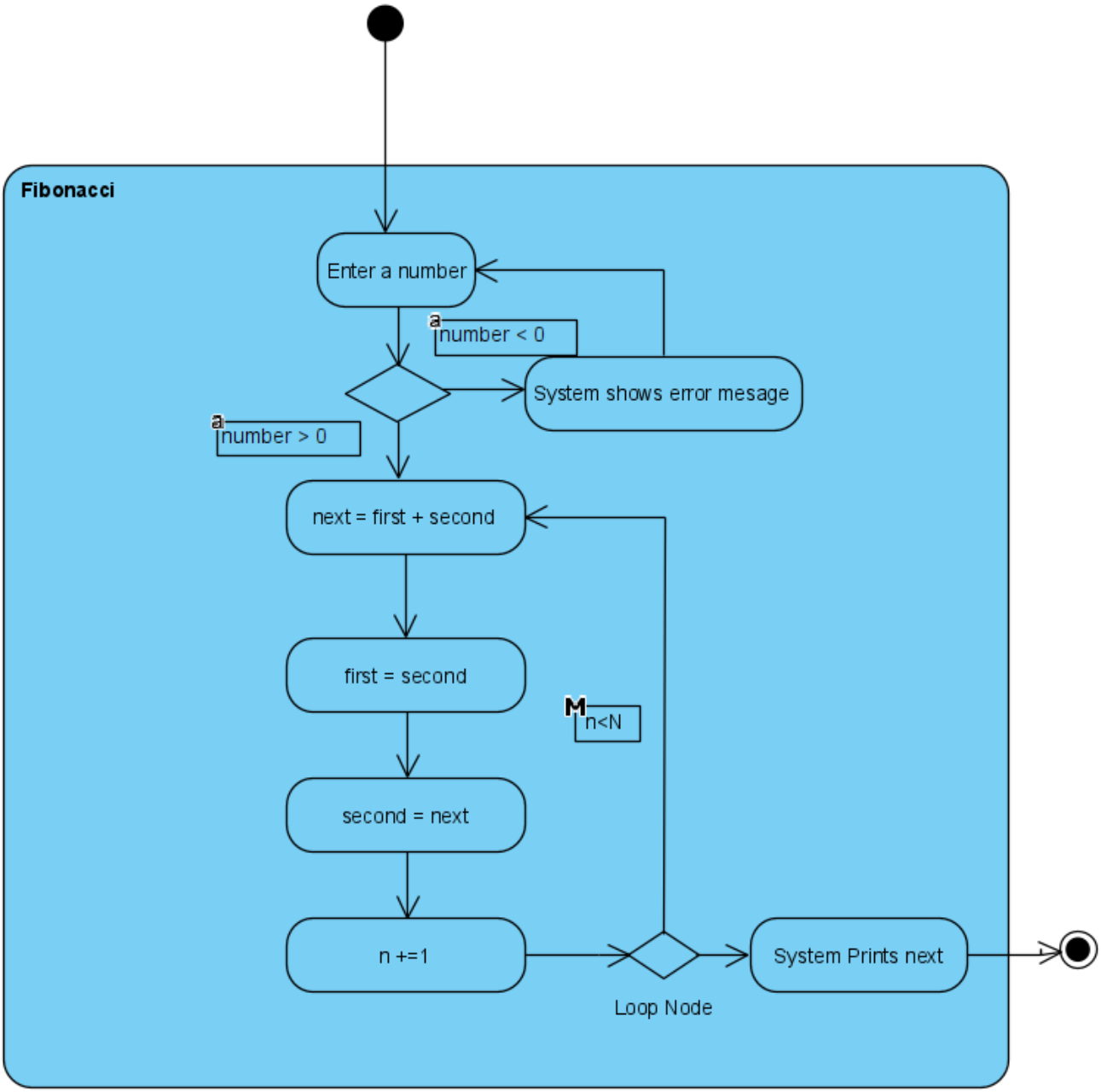
# Basics of Software Engineering Class 5

## Task 1



Task 2


Fibonacci
Enter a number
a
number < 0
System shows error mesage
a
number > 0
next = first + second
first = second
M
n<N
second = next
n +=1
System Prints next
Loop Node

Task 3.

As a User I want to be able to Register new account

As a User I want to be able to Authenticate with login and password so that I could view dictionaries

As a User I want to be able to create a new dictionary based on translated by Google API text.

As a User I want to be able to delete existing dictionaries

As a User I want to be able to learn new words base on chosen dictionary

**Acceptance Criteria**

*Scenario 1a.* Registration – success

**Given:** User enters registration data

**When** the user enters a valid data

**Then** System registers new account based on input data, automatically authenticates user and gives an access to other actions

*Scenario 1b.* Registration – success

**Given:** User enters registration data

**When** the user enters a non-valid data

**Then** System prints error message and asks user to correct input data

**And** System returns user to enter data step.

*Scenario 2a.* Login – success

**Given**: User enters login data

**When** the user enters a valid data

**Then** System authenticates user and gives an access to other actions

*Scenario 2a.* Login – failure

**Given**: User enters login data

**When** the user enters a non-valid data

**Then** System prints error message and asks user to correct input data

**And** System returns user to enter data step.

**Scenario 3a.** Create new dictionary - User's translation.

**Given:** User enters words and their translation into a system

**When** Users ends entering

**Then** System creates a new dictionary base on user's input

**Scenario 3b.** Create new dictionary - Google Api's translation.

**Given:** User enters text into a system and a language

**When** Users ends entering

**Then** Google API tries to translate a text and returns the result to the system

**And** System shows a result to a User, asks User to input translation for non-recognized words

**And** after User's confirmation, System creates a new Dictionary.

**Scenario 4a.** View dictionaries - success.

**Given:** User enters name of a dictionary

**When** User enters name of existing dictionary

**Then** System shows a dictionary with entered name to a user

**Scenario 4b.** View dictionaries - failure.

**Given:** User enters name of a dictionary

**When** User enters name of non-existing dictionary

**Then** System shows error message

**And** System asks user to enter another name

**And** System returns user to name input step

**Scenario 5a.** Delete dictionary – success.

**Given:** User enters name of a dictionary he wants to delete

**When** User enters name of existing dictionary

**Then** System shows deletes a dictionary

**And** System shows success message to a user

**Scenario 5a.** Delete dictionary – failure.

**Given:** User enters name of a dictionary he wants to delete

**When** User enters name of non-existing dictionary

**Then** System shows error message to a user

**And** System asks user to enter another dictionary name

**And** System returns user to name input step

**Scenario 6**. Learn words of chosen Dictionary

**Given**: Dictionary is chosen

**When**: User wants to start learning program

**Then** System starts learning program of chosen dictionary