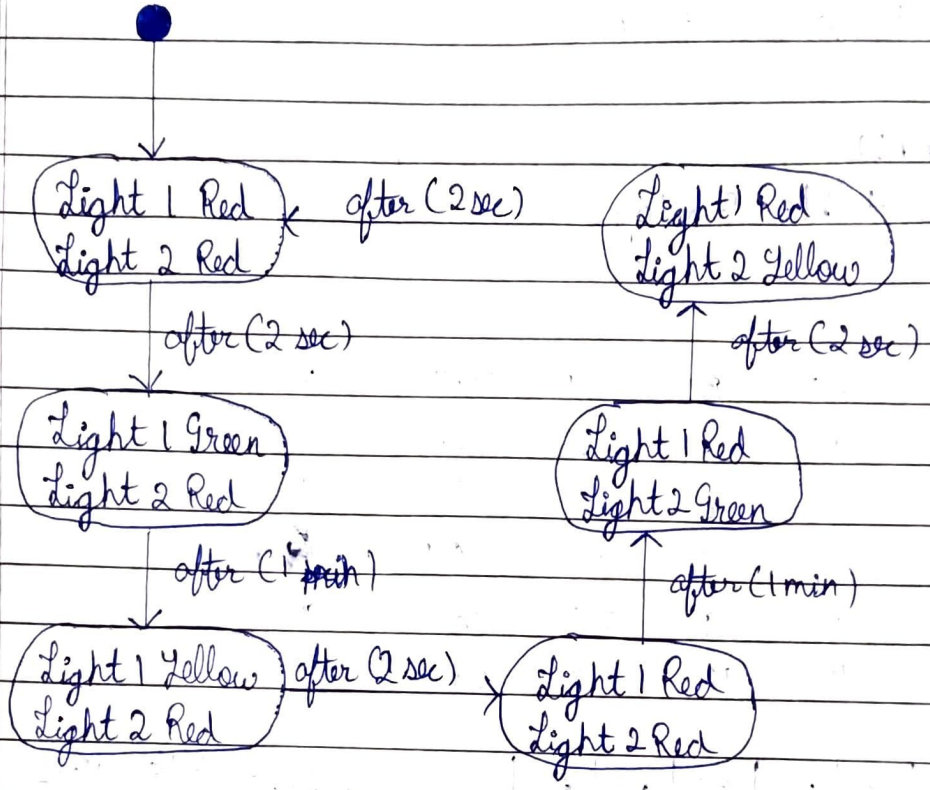
Page No
Date

Varun Khadayate A016

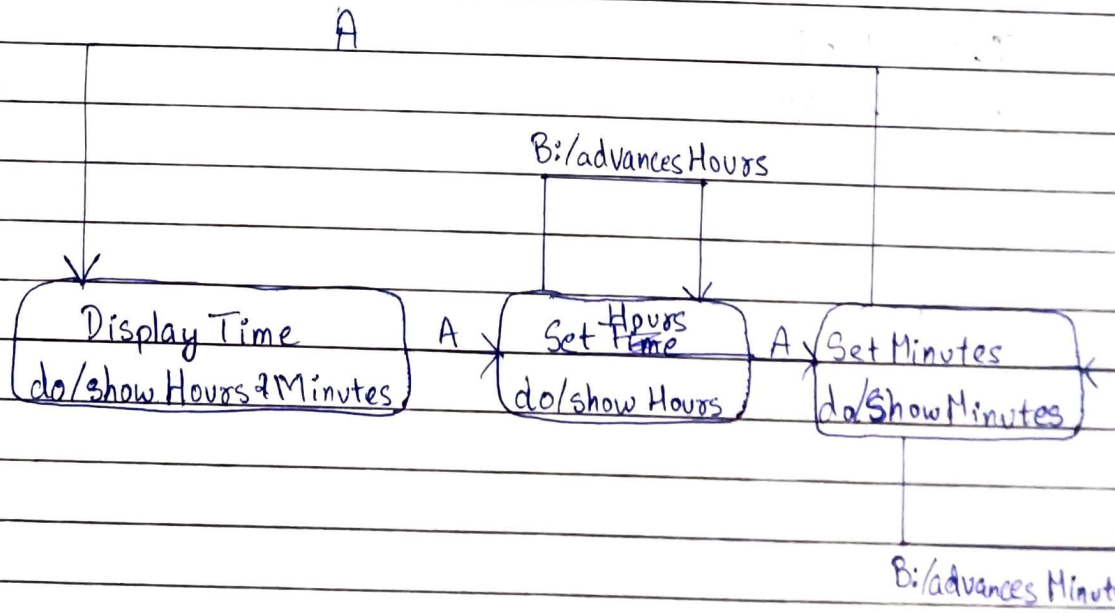
UML

Assignment - V

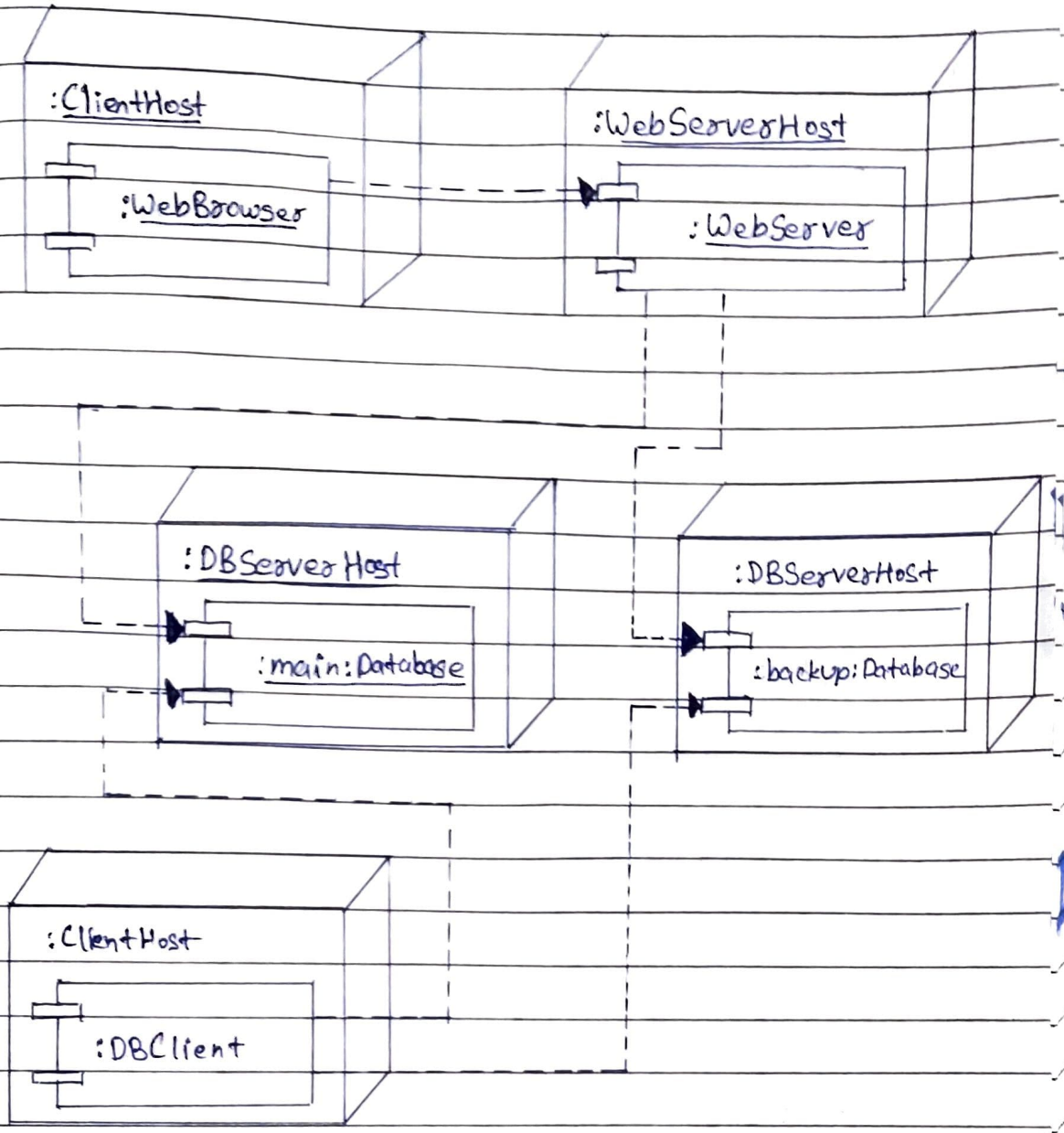
Q1.



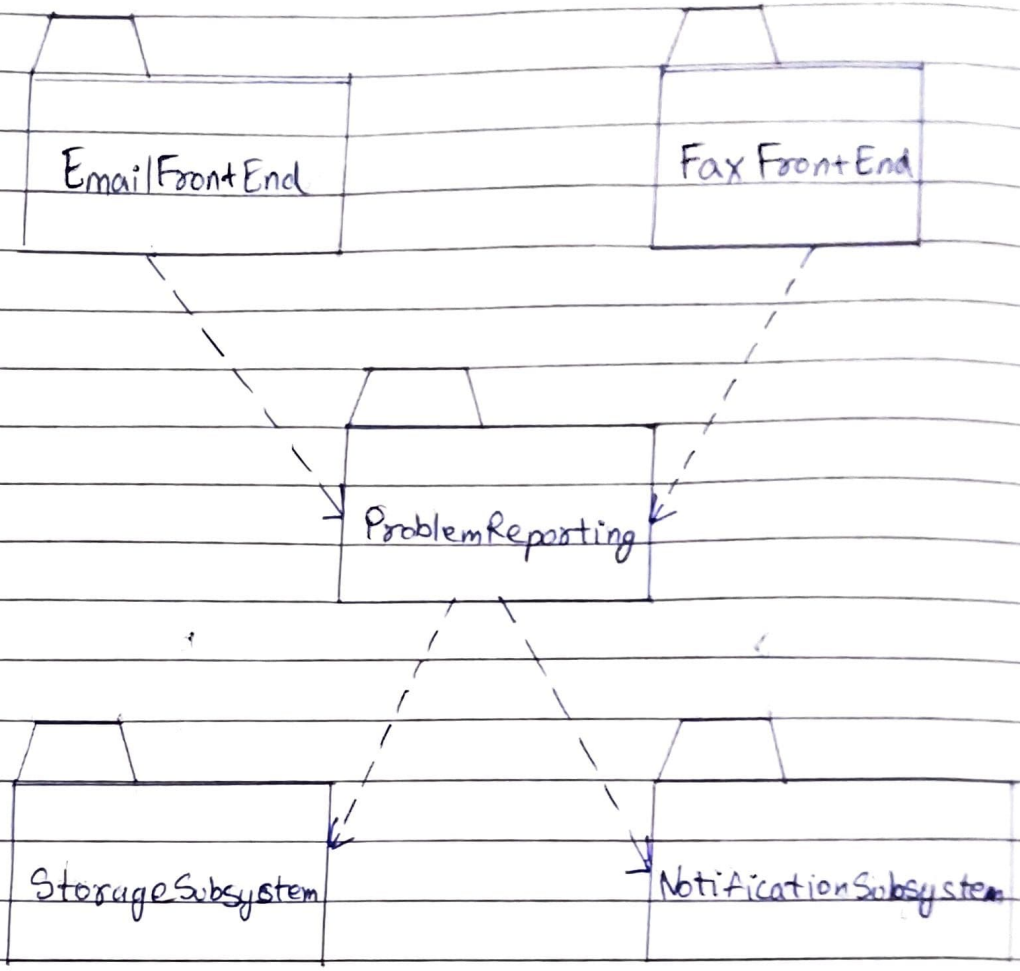
Q2.



Q3


:ClientHost
:WebBrowser
:WebServerHost
:WebServer
:DBServerHost
:main:Database
:DBServerHost
:backup:Database
:ClientHost
:DBClient

Q4.



Q5.

a. context List::size()
post: result = elements->size

b. context List::add(e)
post: contains(e) and size() = @pre.size() + 1

c. context List:: remove(e)
post: (@pre.contains(e) implies size() = @pre.size() - 1) and
(not @pre.contains(e) implies size() = @pre.size()) and
result = @pre.contains(e)

d. context List :: ~~get~~contains(e)
post: result = elements->includes(e)

e. context List::getCidx)
pre: idx>=0 and id~~x~~ < size()

context List::get(idx)
post: result = elements->at(idx+1)

Q6.

a. context Set::size()
post: result = elements->size

b. context Set::add(e)
post: contains(e) and
(@pre.contains(e) implies size() = @pre.size()) and
(not @pre.contains(e) implies size() = @pre.size()+1)

c. context Set::remove(e)
post: not contains(e) and
(@pre.contains(e) implies size() = @pre.size()-1) and
(not @pre.contains(e) implies size() = @pre.size())

d. context Set::contains(e)
post: elements->includes(e)