Logo

Description automatically generatedArab Academy for Science, Technology and Maritime Transport

College of Engineering – Alexandria

Computer Engineering Department

**Microprocessors**

**project.**

A report submitted for

microprocessors

By

**Mohamed Adel**

**18100930**

Under the supervision of

**Dr. sherine**

**And**

**Eng.samar samir**

**January 2022**

**Project aim:**

Detect whether if the user entered both the correct secret key and the correct password

**Explanation:**

There’re two tests(test 1,test2)

**Test1**

The user inserts the secret key(the sum of the secret key and all numbers smaller than it till it reaches 1 has to have one digit if the sum has more than one digits then it’s not a secret key)

For example:

* If user inserts 3

Then 3+2+1=6 which means it’s a secret key and it will jump to test2

* If user inserts 5

Then 5+4+3+2+1=15 which means it’s not a secret key and it won’t jump to test1

**Test2**

The user inserts a password if it’s valid then traffic lights will appear if not then they won’t and LCD screen appears holding the string “lose”

**A picture containing graphical user interface

Description automatically generatedSimulation and code snippets:**

A picture containing graphical user interface

Description automatically generated

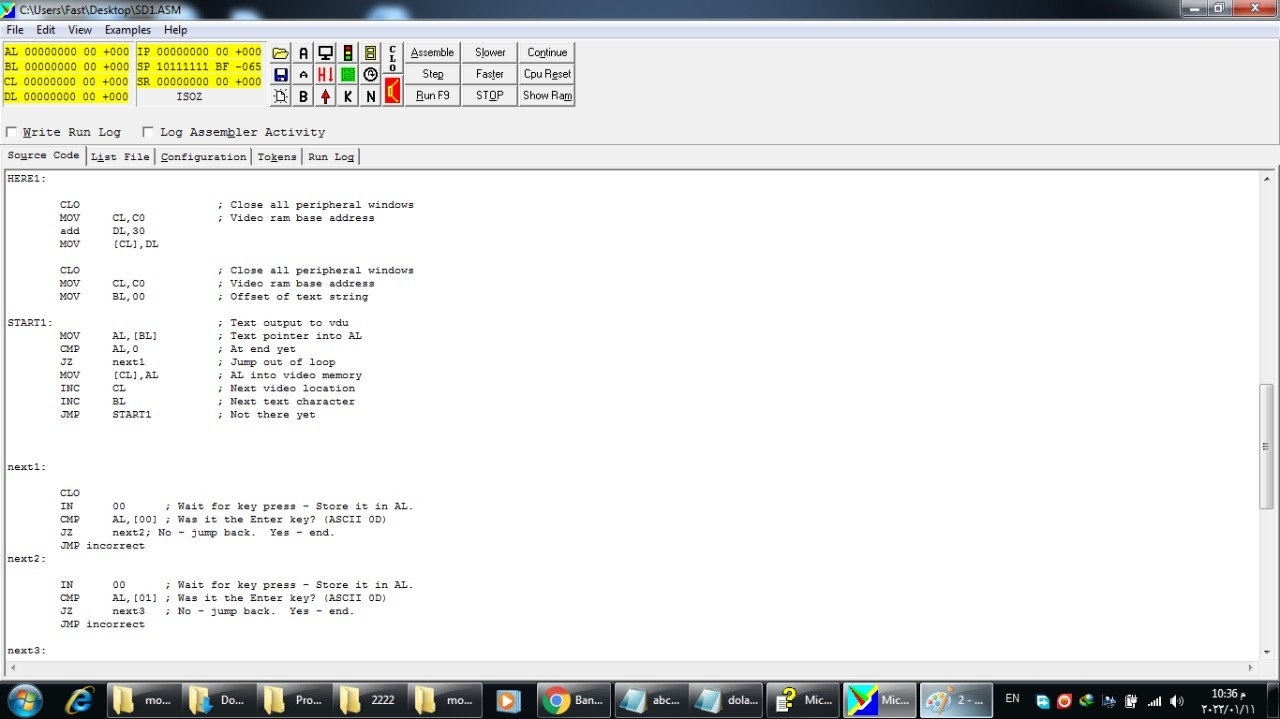
Graphical user interface

Description automatically generated with medium confidence

Graphical user interface, text, application

Description automatically generated

Graphical user interface, text, application, Word

Description automatically generated

Graphical user interface, text, application, Word

Description automatically generated