Supply Chain Management of

Footwear Industries in Bangladesh

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**Reverse Engineering TTC6510-3002**

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**Lab03**

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**First Step**

**A screen shot of a computer code

Description automatically generated**

* In the **main** function **“aPassword”** with the comment on its side (**“Password”**) caught my attention at the first glance.
* The **%s** also gives an idea that the password is a string value.

**Second Step**

A computer screen shot of a code

Description automatically generated

* It looked a little complicated with logic brunching and a loop in the **check\_password** function.
* The only unusual suspicious context found in **unk\_804A064.** Rest can be understood that how the password is filtered in different functions and how the \_memcpy, \_memset etc. are prepared.

A screenshot of a computer program

Description automatically generated

* “**lea edx, unk\_804A6064** refer to read-only data related to the **CHARACTERS** array.”
* Digging on with **unk\_804A6064** found the hexadecimal **rodata** (Read only Data) values in list.

**Third Step**

A screenshot of a computer

Description automatically generated

* Here the list of hexadecimal values is found.

A screen shot of a computer code

Description automatically generated

* Then the values are converted to decimal which each represent the corresponding in the Alphabet shown below.



**Password**

* There gives the expected string for password which later confirmed in the terminal.

A close up of a black background

Description automatically generated

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| Topic | Time |
| Lab03 | 10 hours |
| Report writing | 3 hours |