**First Step Analysis(Boot\_loader)**

**Sources used:**

**1-Create Your Own Operating System (OS):**

(<https://www.youtube.com/watch?v=l2wZf45ZcAg>)

# 2-creating your own OS in 30 minutes:

# ( <https://www.youtube.com/watch?v=Qbx2mCM4SgU>)

# 3-How To Make An Operating System:

# ( <https://www.youtube.com/watch?v=6MJUGVFAXKg>)

# 4-How to create an Operating System - Step 1 - The Boot loader in Assembly:

# ( <https://www.youtube.com/watch?v=YLFRs081pIU>)

# 5-Bootloader 1:

# ( <https://www.youtube.com/watch?v=avfQyYnaJIY>)

# 6-How to write a simple operating system:

# ( <http://mikeos.sourceforge.net/write-your-own-os.html>)

# 7-Operating System Design/Initialization/boot loader: (<https://en.wikibooks.org/wiki/Operating_System_Design/Initialization/Bootloader>)

**The result:**

1-Install nasm(To write a code in assembly language) and qemu(to compile the source code).

2-Write coding for bootloader in 16 bit assembly

From site

3-Save the source code and compiled it using nasm

4-Open it in qemu and write the command(qemu-system-x86-64 file name.bin)

5- Test boot\_loader on virtual environment

**Used tools:**

1-Virtual box and load Linux mint on it

2-Nasm

3-Qeum

**Sources of the previous steps (in order):**

# 1-how to install nasm(<https://www.youtube.com/watch?v=RagkEGpOhJ0>)

# How To Install QEMU(<https://www.youtube.com/watch?v=L1NnqCXbqMg>)

**2-**[**http://createyourownos.blogspot.com/**](https://www.youtube.com/redirect?q=http%3A%2F%2Fcreateyourownos.blogspot.com%2F&v=l2wZf45ZcAg&event=video_description&redir_token=qmm8ZlOpWouhtb3ovSI1yG1iLh18MTU3MTcyNjI0NEAxNTcxNjM5ODQ0)

**3-Create Your Own Operating System (OS): (**[**https://www.youtube.com/watch?v=l2wZf45ZcAg**](https://www.youtube.com/watch?v=l2wZf45ZcAg)**)**

**(step 3 and step 4)**

**Implementation**:

1-installed nasm and qeum

2- writing source code of boot\_loader

3-compiled source code

4- test boot\_loader

**Team Giants: Huda && Nour**