

# IE4012 Offensive Hacking Tactical and Strategic 4<sup>rd</sup> Year, 1<sup>st</sup> Semester

< Shell Code >

< **Report 02** >

Submitted to

Sri Lanka Institute of Information Technology

In partial fulfillment of the requirements for the Bachelor of Science Special Honors Degree in Information Technology

### 1. Install the nasm to the kali linux

```
File Edit View Search Terminal Help

root@kali:~# uname -a
Linux kali 4.18.0-kali2-amd64 #1 SMP Debian 4.18.10-2kali1 (2018-10-09) x86_64 G
NU/Linux
root@kali:~# sudo apt-get install nasm
Reading package lists... Done
Building dependency tree
Reading state information... Done
nasm is already the newest version (2.14.02-1).
nasm set to manually installed.
0 upgraded, 0 newly installed, 0 to remove and 2131 not upgraded.
root@kali:~#
```

Figure 1

# 2. Open the **hello.asm**

```
File Edit View Search Terminal Help

root@kali:~# sudo apt-get install nasm
Reading package lists... Done
Building dependency tree
Reading state information... Done
nasm is already the newest version (2.14.02-1).
0 upgraded, 0 newly installed, 0 to remove and 2131 not upgraded.
root@kali:~# touch hello.asm
root@kali:~# nano hello.asm
root@kali:~#
```

Figure 2

# 3. Write a assembly code in nano hello.asm

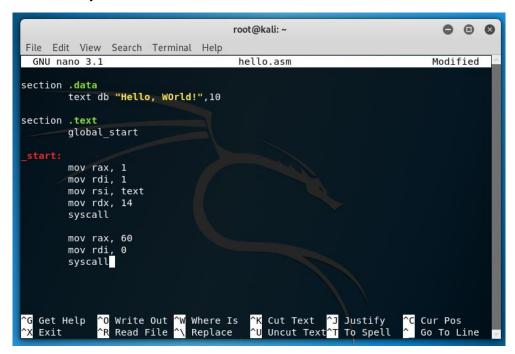


Figure 3

- 4. Compile this using
  - a. Nasm -f elf64 -o hello.o hello.asm
  - b. Man ld
  - c. **Id hello.o -o hello** these commands

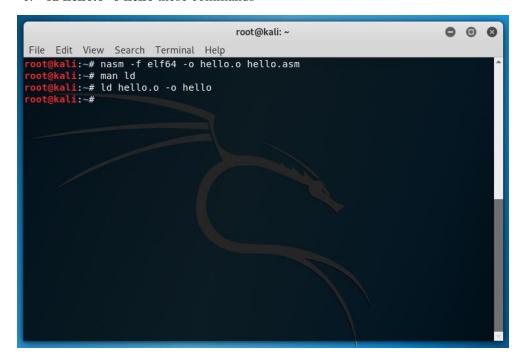


Figure 4

### 5. Run the **man ld** command

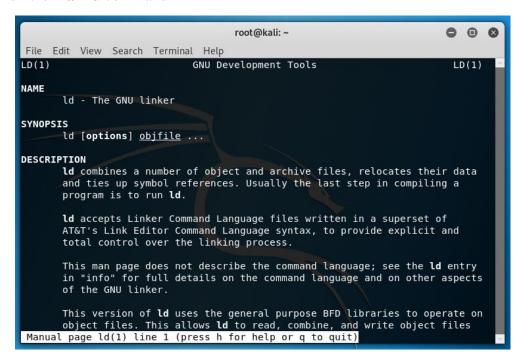


Figure 5

6. Got the output – Hello, World!

```
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root@kali:-# nasm -f elf64 -o hello.o hello.asm
root@kali:-# masm ld
root@kali:-# ld hello.o -o hello
root@kali:-# ls
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root@kali:-# ./hello
Hello, WOrld!
root@kali:-#
```

Figure 6