OHTS – Big bang Theory

First, I opened the "Github" account and forked the account, which is shown below (Figure 1).

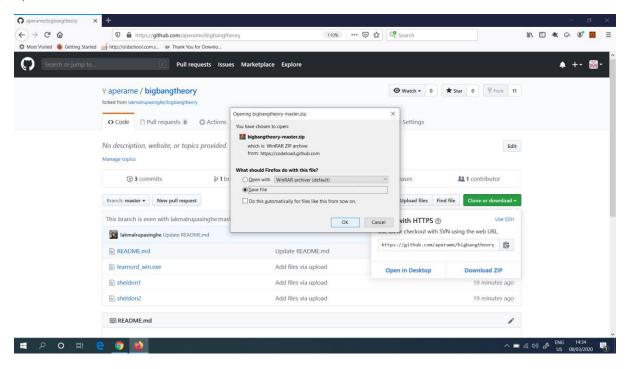


Figure 1:Fork and get the account

Next, I unzipped the downloaded file, and saw the files (Figure 2).

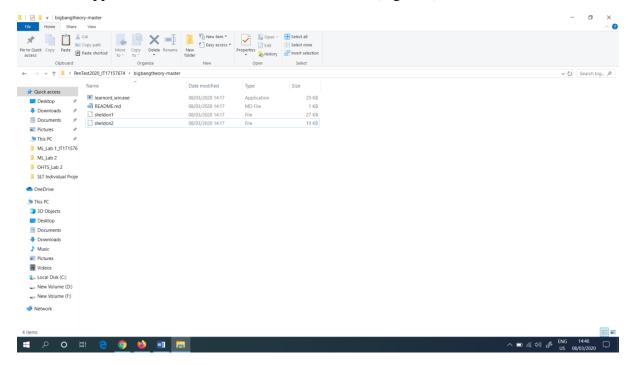


Figure 2: Unzipped and viewed the files

Next, I opened the Kali Linux and downloaded the file from the GitHub and saved it into the Downloads file. This is shown in (Figure 3).

In the same manner I have also downloaded the sheldon2 and learnord_win exe file.

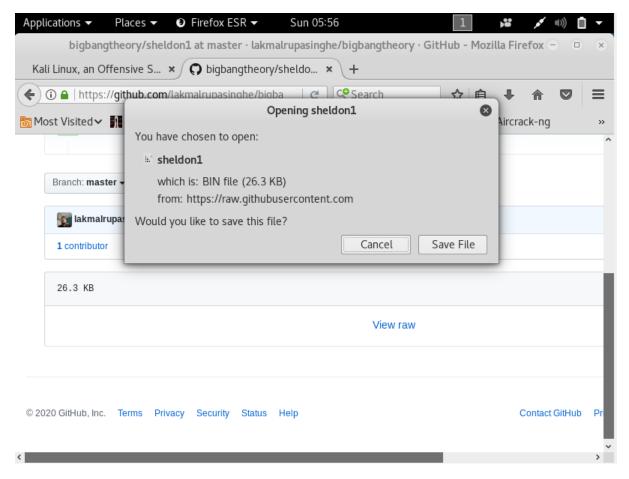


Figure 3: Download and save the files

Next, I opened the terminal and typed as "ls" and other commands which is shown in (Figure 4).

Then I typed as "./sheldon 1" in order to see whether the files are running or not.

```
root@kali: ~/Downloads
File Edit View Search Terminal Help
       li:~/Downloads# ls
sheldon1
       li:~/Downloads# ./sheldon1
Welcome to my fiendish little bomb. You have 6 phases with
which to blow yourself up. Have a nice day!
BOOM!!!
The⊃bomb∘has blown up.
 oot@kali:~/Downloads# gdb sh
                 sha256sum
                                  shasum
                                                   showrgb
sha1deep
                 sha384sum
                                  sh.distrib
                                                   shred
                                                   shuf
sha1sum
                 sha512sum
                                  sheldon1
sha224sum
                 shadowconfig
                                  showconsolefont shutdown
sha256deep
                 sharesec
                                  showkey
         i:~/Downloads# gdb sheldon1
GNU gdb (Debian 8.1-4+b1) 8.1
Copyright (C) 2018 Free Software Foundation, Inc.
License GPLv3+: GNU GPL version 3 or later <http://gnu.org/licenses/gpl.html>
This is free software: you are free to change and redistribute it.
There is NO WARRANTY, to the extent permitted by law. Type "show copying"
and "show warranty" for details.
This GDB was configured as "x86 64-linux-gnu".
Type "show configuration" for configuration details.
```

Figure 4: Typed the "ls" commands and other commands

Then I typed as ". /sheldon 1" command, "gdb sh" command and "gdb sheldon1" command as shown above.

Then I typed as "gdb sh" in order to analyse the Assembly codes.

Next, I typed as "gdb sheldon1" and analysed the sheldon1 file. Then the bomb will blow up as a result.

Next, I analysed the commands as shown below in Figure 5.

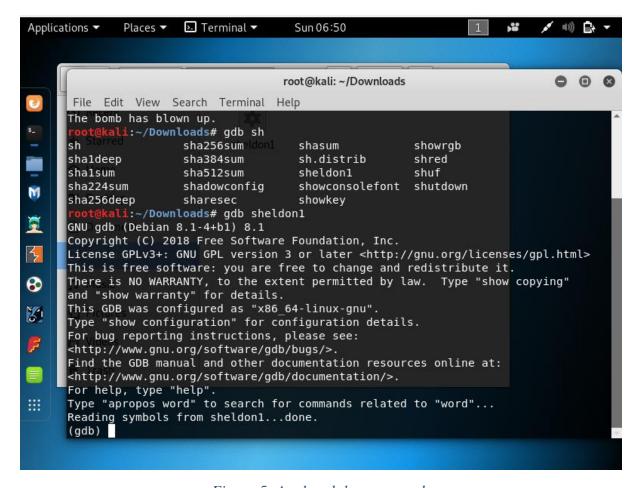


Figure 5: Analysed the commands

Next, I typed as "disass main" and analysed it. This is shown in (Figure 6).

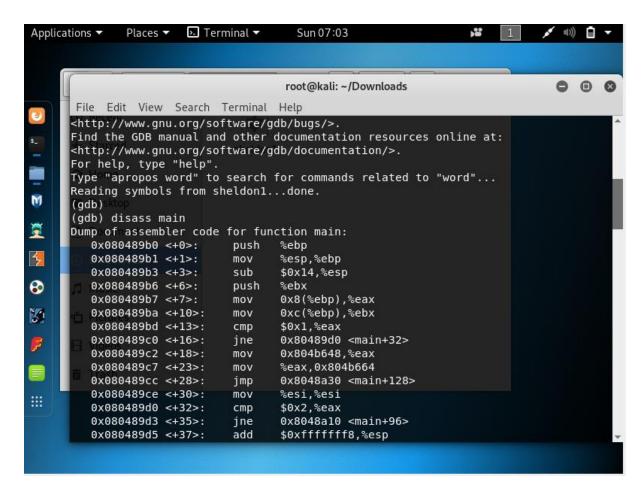


Figure 6: Analysed the "disass main" command

Then, I typed as "disassembly-flavor intel" command and "into function" which is shown in (Figure 7).

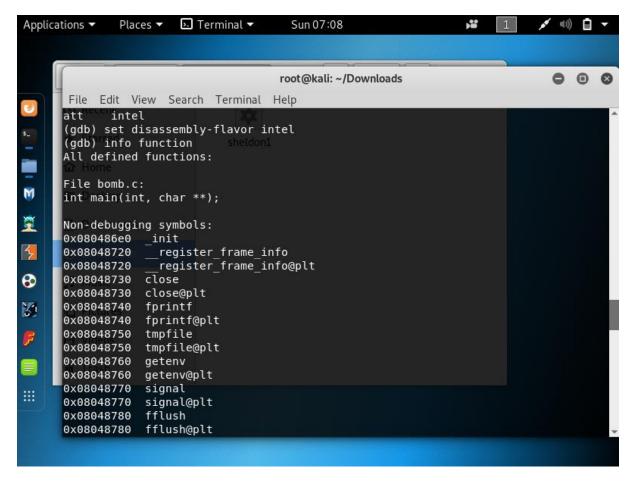


Figure 7: Typed the above mentioned commands

Next, I typed as "disassemble main" to analyse the main function (Figure 8).

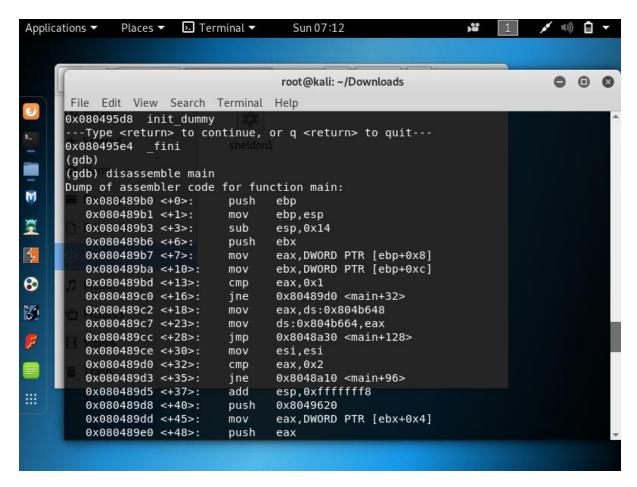


Figure 8: Typed the "disassemble main" commands

Then, I typed as shown in (Figure 9).

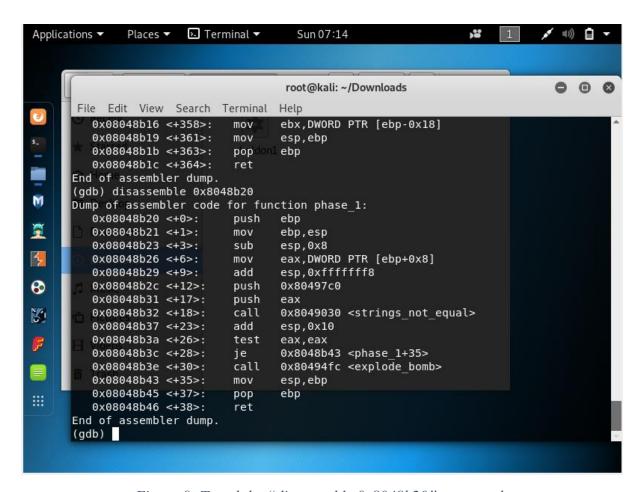


Figure 9: Typed the "disassemble 0x8048b20" commands

Then, in the same way I analysed for all the registers.