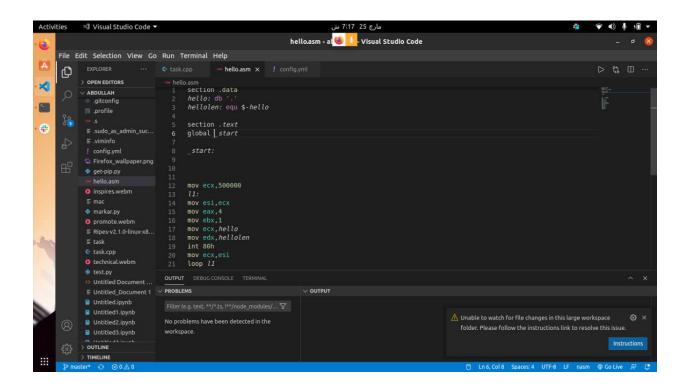
Number of experiment run: 50

Average "user time" for hello (int -based calls): 0.07884

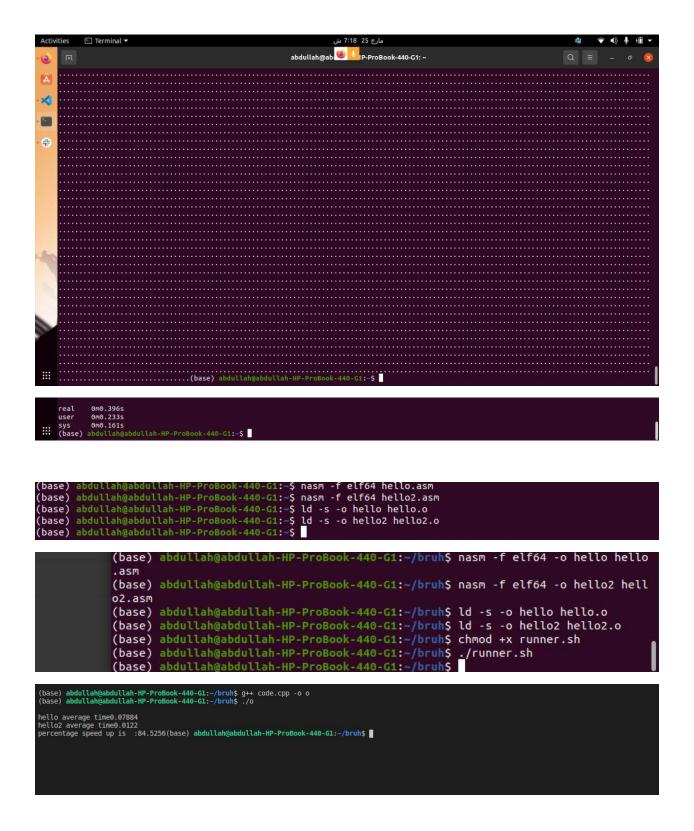
Average "user time" for hello2 (syscall-based): 0.0122

Percentage Speed Up



```
(base) abdullah@abdullah-HP-ProBook-440-G1:~$ nasm -f elf64 hello.asm
(base) abdullah@abdullah-HP-ProBook-440-G1:~$
```

```
(base) abdullah@abdullah-HP-ProBook-440-G1:-$ sudo apt install build-essential
Reading package lists... Done
Building dependency tree
Reading state information... Done
build-essential is already the newest version (12.8ubuntu1.1).
The following packages were automatically installed and are no longer required:
libfprint-2-tod1 linux-headers-5.4.0-52 linux-headers-5.4.0-52-generic linux-image-5.4.0-52-generic linux-modules-extra-5.4.0-52-generic
Use 'sudo apt autoremove' to remove them.
0 upgraded, 0 newly installed, 0 to remove and 22 not upgraded.
(base) abdullah@abdullah-HP-ProBook-440-G1:-$
```



```
file.open(name);
string string_1;
char char_1,char_2;
int integer;
double average=0.0,x=0.0;
while(!file.eof())
    for(int i=0; i<2;i++)
    file>>string_1;
    file>>integer;
    file>>char_1;
    file>>x;
    file>>char 2;
    average=average+x;
    file>>string_1;
    file>>integer;
      file>>integer;
      file>>char_1;
      file>>char_2;
  average =average/50;
  return average;
t main()
```

```
int main()
{
    double x,y;
    x=file("hello.txt");
    y=file("hello2.txt");
    cout<<endl<<"hello average time"<<x;
    cout<<endl<<"hello2 average time"<<y;
    double a=[(x-y)*100]/a;
    cout<<endl<<"percentage speed up is :"<<a;
}</pre>
```