RIT | جامعة روتشستر الأمريكية للتكنولوجيا في دبي
A Global American University in Dubai

RIT | **Rochester Institute of Technology of Dubai**

Department of Electrical Engineering and Computing

Computing Security

CSEC 202 Reverse Engineering Fundamentals

Spring 2024

Sections: 600, 601, and 602

Extra Credit #1:

Get your assembly skillz up to speed!

Release Date: February 16, 2024

Due Date: February 25, 2024 – 11:59:59 p.m. (GST= GMT+4)

Instructor: Emad AbuKhousa (eakcad@rit.edu)

Extra Credit #1 :

Get your assembly skillz up to speed!

Instructions:

(1) Compile the hello world C code into assembly code

Code:

```
#include <stdio.h>

int main(int argc, char* argv[]) {
    if (argc == 2)
     printf("Hello %s\n", argv[1]);
return 0;
}
```

GCC Command:

```
gcc -W -Wall -Wextra -Wpedantic -fno-asynchronous-unwind-tables -O0 -S -masm=intel hello.c -o hello.s
```

(2) For each line with an assembly instruction, add a comment explaining what that instruction is doing

(3) Be smart about it! No "moves 2 into eax"   Instead say: "the number of args must be 2"

(4) Note that your assembly output may vary based on the gcc version you're using, and that's completely acceptable.

Grade: 5 additional bonus points (compensates for points lost on actual homework assignments)

Teams:

This assignment can be done individually or in a team of 2. **Only one team member** needs to submit on behalf of everyone in their group

Submission:

Upload your commented assembly code file (called hello.s) to this Assignment.