



Assignment 4- Chapter 10 – Subprograms

Objectives: The objectives of this assignment are:

1. Write a complete assembly program including subprogram calls.

Exercise 1:

1. Write a subprogram **max** that receives three integers from `asm_main` and returns the maximum of the three in `EAX`.
2. The `asm_main` requests the three integers from the user and displays the maximum number returned by **max** subprogram.

Sample output:

```
Enter the first number: 12
Enter the second number: 45
Enter the third number: -78
The maximum of the three numbers is: 45
```

Exercise 2:

Extend the previous exercise to return both maximum and minimum of the three integers received by your subprogram `min_max`.

In order to return the minimum and maximum values, your subprogram **min_max** should use two local variables to store the minimum and the maximum.

Sample output:

```
Enter the first number: 12
Enter the second number: -4
Enter the third number: 23
The minimum of the three numbers is: -4
The maximum of the three numbers is: 23
```

Deliverables:

- Your assembly code (.asm) file.
- A screenshot of your code running, proving it works, or showing how far you got.



- The path on the server where it can be found. (run `pwd` to get this)