CMPE 230 Systems Programming

Project (due November 3rd at 23:59)

(This project can be implemented in groups of at most two students.)

In this project, you will implement an A86 assembly language program (callled **`octalmultiply`**) that will input two octal numbers, multiply them and output the result. Some examples are given below:

```
>octalmultiply
10000000006*10000000006
100000000140000000044
```

```
>octalmultiply
27*127
3721
```

Please note that:

- The input numbers are non-negative numbers expressed in base 8 (i.e. octal numbers).
- The range of input numbers are $[0,2^{32}-1]$.
- The program will be written for 8086 microprocessor.

Grading

Your project will be graded according to the following criteria:

Documentation (written document describing how you implemented your project)	12%
Comments in your code	8%
Implementation and tests	80%

You will be provided with instructions on how to submit your completed project.

Late Submission

If the project is submitted late, the following penalties will be applied:

- 0 < hours late <= 24 : 25%
- 24 < hours late <= 48 : 50%
- hours late > 48 : 100%

Timestamping

Project file should include your names in it. Please timestamp your project file using https://opentimestamps.org/ before you submit it. Keep the project file and its corresponding timestamp .ots file.