EECE416 Microcomputer Fundamentals   Fall 2021
Dr. Charles Kim

* This document is 2 pages long.

Code2 Assignment (100 points)

A. Coding subject

There are 4 problems in this coding assignment: (1), (2), (3), and
(4).   Your problem for this coding assignment is randomly allocated
by the last digit of your Howard University ID.

Write and run (or debug) a code which computes:
(1) the sum $1^2+2^2+3^2+ … + n^2$ for a given number n ($<0<n<10$) if **the last
digit** of your HU ID is **2**.
(2) n factorial (n!) for a given number n ($0<n<10$) if **the last digit**
of your HU ID is **0, 3, 4, or 8.**
(3) x^n for given numbers x and n ($0<x< 10$ and $0<n<10$) if **the last
digit** of your HU ID is **5, 7, or 9.**
(4) the sum $0 + 2 + 4+ … + 2*n$ (sum of even numbers up to 2*n) for a
given number n ($0<n<10$) if **the last digit** of your HU ID is **1 or 6.**

B. Code Specification

(a) Input interface: Read the value for n (and x for problem (3)) from
the keyboard in decimal format
(b) Output interface: Display the result of calculation on the screen
(or console) in decimal format.

C. Submission

(a) The <u>code</u>. The file name for the ASM code: ***ASM2_LastName.asm***
(b) Submission via email or Slack
(c) Submission due: **8pm Wed Nov 24, 2021**
(d) Submission due extension: usually granted upon request

D. Score Distribution and Scoring Rubrics   - Total points - 100

100 pts	**Distinctively different and original code** with <u>correct</u> results as tested by the instructor
80 pts	**One of the similar codes** with <u>correct</u> results as tested by the instructor
60 pts	**Distinctively different and original code** with <u>incorrect</u> results as tested by the instructor
50 pts	**One of the same or almost identical codes** with

	correct results as tested by the instructor
30 pt	None of the above
0 pt	No submission