

## Assignment#2

### Instructions:

- Program must be runnable in EMU8086.
- A single text file is to be submitted on MS teams in **uncompressed format** by the due date.

### Problem Statement

Write a program that multiplies two 32-bit numbers using the shift-and-add method given below. The program will store 32-bit multiplicand and multiplier, as well as the 64-bit product in byte arrays.

### Shift-and-Add Method

$X \leftarrow$  Multiplicand,  $Y \leftarrow$  Multiplier,  $A \leftarrow 0$  (product),  $N \leftarrow 32$

