Matlab hands-on 2

Make the Matlab program as instructed below.

1. **Make a 1D array u by using array v as follows.**

   v = [3 5 -2 5 -1 0]

   1) If a value in v is great than 0, move it to u at the same location. Otherwise, change the value to 0. You MUST use find() function, e.g. v = [5 4 -3] => u = [5 4 0].

   2) Using if and for (not using find() at this time), do the same thing as described in 1).

2. **Make a program that accepts an input filename, change its extension of the filename and displays it as the example below.** (hint: Use find() to get the index of '.')

   e.g.) input file name: gate.in -> output file name: gate.out

3. **Using for statement, make a program to get an answer of the equation below.**

$$\sum_{i=3}^{10} 2^i$$

4. **Without using for statement, make a program to get an answer of the equation above.**