2. Here are the 15 test patterns and the reasons that I chose them:

   (1) Patterns that are teacher's example: (immediately accessible)
       a. (255, 255)
       b. (76, 95)
   (2) Patterns that tests if "flag_zero" works: (Y = E = 0)
       a. (0, 0)
       b. (0, 34)
   (3) Patterns that test if every bit of "Y" works properly:
       a. (1, 101) → Y = 11001010
       b. (2, 21) → Y = 10101000
       c. (17, 10) → Y = 10101010
       d. (22, 31) → Y = 10101010 (truncates 10)
       e. (128, 255) → Y = 11111111 (truncates 0000000)
   (4) Patterns that test if "E" works properly:
       a. (1, 1) → E = 0
       b. (13, 157) → E = 10
       c. (128, 255) → E = 15
   (5) Patterns that test "Y" truncation and expects Y ends with 0:
       a. (5, 101) → original number ends with one 1
       b. (5, 199) → original number ends with two 1s
       c. (119, 17) → original number ends with three 1s

3. After reading the testbench, task, in my understanding, is a way of bundling multiple actions. In this way, we only need to call the task name to perform repetitive actions.

4.