IS 139 Assignment

Instructions
- Assignment should be done by a group of maximum 4 people
- For each of the following questions write the MARIE program, assemble it and test it using the provided MARIE simulator.
- Submit a zip file containing the MARIE assembly file(s) for each question

Questions

1. Write a MARIE program using a loop that multiplies two positive numbers by using repeated addition. For example, to multiply 3 x 5, the program would add 3 five times, or 3 + 3 + 3 + 3 + 3

2. Write a MARIE assembly program to accomplish the following task

   if x < y then
        y = y - x;
   else
        x = x - y;
   where x & y can be any value. e.g. x = 15 & y = 20 (In your answer indicate the values you have chosen for x & y)

3. Write a MARIE assembly program that adds the first ten numbers from 1 to 10 i.e. 1 + 2 + 3 + 4 + 5 + 6 +7 + 8 + 9 + 10

4. Write a MARIE assembly program that subtracts two numbers given as input from the keyboard and displays the result as output.