5. Data structure question. Consider the situation where a user has an array of words. The operation that is to be performed on this array of data is to sum all of the elements. The array starts at address `0xFFFF0100` (and progresses to higher addresses). Create code that will calculate the sum of the first 800 values of this array.

STACK TIME with counter

① So First I will assign a register to become the pointer (R10)
② set the register to point at 0xFFFF0100 how
③ The pointer will take the value of that location in memory and put it in the register (R2)
④ assign 2 registers to hold values one will hold the value the the pointer gives it and the other will hold the result of the sum of the values R2 + R3,
⑤ the offset of R10 will be incremented to move through the array
⑥ Add the R2 + R3 and put result into R3
⑦ repeat 800 times so there will be a counter as well