ECE 522 Lab 3 question1

Question 1:

- 1. Declare an array with 4 element 4-byte values, initialized to 10, 0, 12, 32. (4x32-bit content)
- 2. align the stack (claim the next 16 bytes for the rsp register)
- 3. copies the whole list in .LCPI0_0 to the xmm0 register in one go
- 4. copies the content of xmm0 to the stack starting at where the rsp stack pointer points to (do it one by one)
- 5. set eax register to zero.
- 6. [rsp + 4] offset +4 bytes from the frame pointer value stored in rsp register.

The whole line compares the second element in the array to 32.

- 7. set the lower 8 bit in eax (al register) to 1 if if array[1] is greater than 32. (counter =1).
- 8. store 10 in the stack space [rsp + 8*0 + 4]
- 9. release the allocated space on stack
- 10. return