**Assignment 2**

For each add instruction in this problem, assume that EAX contains the given contents before the instruction is executed, and give the contents of EAX as well as the values of the CF, OF, SF, and ZF flags after the instruction is executed:

 EAX before Instruction

(a) 00 00 00 45 add eax, 45

🡪 00 00 00 72 CF: 0 OF:0 SF: 0 ZF: 0

(b) FF FF FF 45 add eax, 45

🡪 FF FF FF 72 CF: 0 OF: 0 SF: 1 ZF: 0

(c) 00 00 00 45 add eax, -45

🡪 00 00 00 18 CF: 1 OF: 0 SF: 0 ZF: 0

(d) FF FF FF 45 add eax, -45

🡪 FF FF FF 18 CF: 1 OF: 0 SF: 1 ZF: 0

(e) FF FF FF FF add eax, 1

🡪 00 00 00 00 CF: 1 OF: 1 SF: 0 ZF: 1

(f) 7F FF FF FF add eax, 100

🡪 80 00 00 63 CF: 0 OF: 1 SF: 1 ZF: 0

(g) 00 00 00 99 add eax, 1

🡪 00 00 00 9A CF: 0 OF: 0 SF: 0 ZF: 0

(h) 00 00 03 AF add eax, 10

🡪 00 00 04 13 CF: 0 OF: 0 SF: 0 ZF: 0