ACTIVITY 17

1. What is the IEEE 754 single-precision representation of the following values?

a. $5^{3}/_{8}$

b. -1/4

c. $-3^{7}/_{8}$

- Use REAL4, REAL8 to declare single-, double-precision floating point numbers.
- Use call WriteFloat to display the value at ST(0). You can also call ShowFPUStack.
- FINIT Initialize the FPU (call this at the beginning of main)
- FLD, FST, FSTP Load/push a value from memory, store value to memory, store and pop
 FADD, FSUB, FMUL, FDIV with no operands: compute ST(1) op ST(0), pop both values, push result
 To translate a formula, convert it to postfix form ("Reverse Polish Notation")
 FILD, FIST, FISTP Load/push integer, round to integer and store, store and pop
- 2. Write a program that subtracts 3.1 3.0 and displays the result.

INCLUDE Irvine32.inc .data

.code main PROC

exit main ENDP END main