Assignment\_ 1 Solution

2.1

addi f, h, -5 (note, no subi)

add f, f, g

2.2

f = g + h + i

2.7

Little Endian

Byte 0: ab

Byte 1: cd

Byte 2: ef

Byte 3: 12

Big Endian

Byte 0: 12

Byte 1: ef

Byte 2: cd

Byte 3: ab2.8 2882400018

2.9

Sll $t0,$s3, 2 # we multiply i by 4

Add $t0, $t0, $s6 #now we have the address of A[i]

Lw $t0, 0($t0) #now we load a word of A[i] into register $t0

Sll $t1, $s4,2 #we multiply j by 4

Add $t1, $t1, $s6

Lw $t1, 0($t1)

Add $t1, $t0, $t1

Sw $t1, 32($s7) # store the result to B[8]