Assignment 3 – Question 1

Table 0

Memory Address	Value
0x230	0 x 23
0x234	0x00
0x235	0x01
0x23A	0xed
0x240	0xff

Register	Value
%rdi	0x230
%rsi	0x234
%rcx	0x4
%rax	0x1

Table 1

Operand	Operand Value	Operand Form
	expressed in hexadecimal	Choices are: Immediate, Register or one of the 9 Memory Addressing Modes
	Hexadecimal	9 Wellioly Addressing Wodes
%rsi	0x234	Register
(%rdi)	0x23	Indirect memory addressing mode
\$0x23A	0x23A	Immediate
0x240	0xff	Absolute memory addressing mode
10(%rdi)	0xed	"Base + displacement" memory addressing mode
560 (%rcx, %rax)	0x01	Indexed memory addressing mode
-550(, %rdi, 2)	0xed	Scaled indexed memory addressing mode
0x6(%rdi, %rax, 4)	0xed	Scaled indexed memory addressing mode

Table 2

Operand	Value	Operand Form
	0x00 is a	Choices are: Immediate, Register or one
	value,	of the 9 Memory Addressing Modes
	not a	
	memory	
	address	
0x234	0x00	Absolute memory addressing mode
2(%rdi, %rax, 2)	0x00	Scaled indexed memory addressing mode
		, 6
(%rdi,%rcx)	0x00	Indexed memory addressing mode
(ordr) ordr)	OA00	Indexed memory addressing mode