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
%rsi	0x234	Register
(%rdi)	0x23	Indirect memory addressing
		mode
\$0x23A	0x23A	Immediate
0x240	0xff	Absolute memory
		addressing
10(%rdi)	0x00A+0x230=0x23A	"Base + displacement"
		memory addressing mode
560 (%rcx,%rax)	0x230+(0x4+0x1)=0x235	Indexed memory addressing
		mode
-550(, %rdi, 2)	-550+(0x230*2)=	Scaled indexed memory
	-550+1120=0x23A	addressing mode
06/2-di 2	06+0230+(01+4)-	Coolediada adamas
0x6(%rdi, %rax,	0x6+0x230+(0x1*4) =	Scaled indexed memory
4)	0x6+0x234=0x23A	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	0 x 00	Absolute memory addressing mode
(,%rsi,1)=0x234	0x00	Scaled indexed memory addressing mode
(%rdi,%rcx)=0x234	0x00	Indexed memory addressing mode