Assembly Program Execution Output

Initial Registers:

R0:000000X0

R1:0XFFFFFFFF

R2:0X8000080

R3:0X10000001

R4:0XEFFFFFFE

Initial Memory:

00000000:000000X0

10000001:000X1111

EFFFFFFE:0X11110000

00100001:0XFFFFF000

00200002:0XF000000F

A:0XF000000F

0:0XFFFFFFFF

Program Output:

Program Execution Output

Executing: AND ['R0', 'R2']

Current Status Bits:

Z: 1

S: 0

C: 0

V: 0

Assembly Program Execution Output

No memory positions changed

No registers modified

Executing: NOT ['[R0]']

Current Status Bits:

Z: 0

S: 1

C: 0

V: 0

Changed Memory State

Memory Address: 0x00000000h

Initial Value (Decimal): None

Current Value (Decimal): 4294967295

Current Value (Hexadecimal): 0XFFFFFFFF

No registers modified

Executing: MOV ['R0', '[A]']

Current Status Bits:

Z: 0

S: 1

Assembly Program Execution Output

C: 0

V: 0

No memory positions changed

Changed Registers:

R0: 0XF000000FHex, (Decimal):4026531855

Executing: SAR ['R0', 10]

Current Status Bits:

Z: 0

S: 1

C: 0

V: 0

No memory positions changed

Changed Registers:

R0: 0XFFFC0000Hex, (Decimal):4294705152

Executing: SUB ['R0', '[R4]']

Current Status Bits:

Z: 0

S: 1

C: 0

V: 0

No memory positions changed

Changed Registers:

R0: 0XEEEB0000Hex, (Decimal):4008378368