

Assembly Program Execution Output

Initial Registers:

R0:000000X0

R1:0xFFFFFFFF

R2:0X8000080

R3:0X10000001

R4:0XEFFFFFFE

Initial Memory:

00000000:000000X0

10000001:000X1111

FFFFFFFE:0X11110000

00100001:0FFFFFFF000

00200002:0XF000000F

A:0X100001

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): FFFFFFFF

No registers modified

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

Current Status Bits:

Z: 0

S: 0

Assembly Program Execution Output

C: 0

V: 0

No memory positions changed

Changed Registers:

R0: 0X00100001h, (Decimal):1048577

Executing: SAR ['R0', 10]

Current Status Bits:

Z: 0

S: 0

C: 0

V: 0

No memory positions changed

Changed Registers:

R0: 0X00000400h, (Decimal):1024

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

Current Status Bits:

Z: 0

S: 1

Assembly Program Execution Output

C: 1

V: 0

No memory positions changed

Changed Registers:

R0: 0XEEEF0400h, (Decimal):4008641536
