

## 3.8 bit multiplication:

GNUSim8085 - 8085 Microprocessor Simulator

File Reset Assembler Debug Help

Registers: A 00, BC 0C 00, DE 00 00, HL 10 37, PSW 00 00, PC 42 18, SP FF FF, Z 1, AC 0, P 1, C 0

Flag: S 0, Z 1, AC 0, P 1, C 0

Decimal - Hex Conversion: 0 0, To Hex, To Dec

I/O Ports: 0 - + 00, Update Port Value

Memory: 0 - + 00, Update Memory

Load me at: 1 MVI D, 00, 2 MVI A, 00, 3 LXI B, 4150, 4 MOV B, M, 5 INX B, 6 MOV C, M, 7 LOOP: ADI B, 8 JNC NEXT, 9 INR D, 10 NEXT: DCR C, 11 JNZ LOOP, 12 STA 4152, 13 MOV A, D, 14 STA 4153, 15 HLT, 16

Start: 4150

Address (Hex)	Address	Data
1036	4150	12
1037	4151	2
1038	4152	24
1039	4153	0
103A	4154	0
103B	4155	0
103C	4156	0
103D	4157	0
103E	4158	0
103F	4159	0
1040	4160	0
1041	4161	0
1042	4162	0
1043	4163	0

Line No: 0, Assembler Message: Program assembled successfully

Simulator: Idle

Windows taskbar: 33°C Partly sunny, 11:04, 13-09-2022