Assembly Language Lecture Series: Introduction to SASM: Constant

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What is SASM?

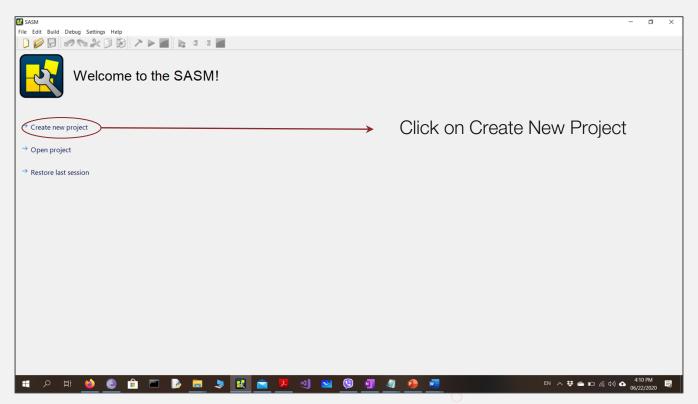
SASM (SimpleASM) - simple Open Source cross-platform IDE for NASM assembly languages. SASM has syntax highlighting and debugger.

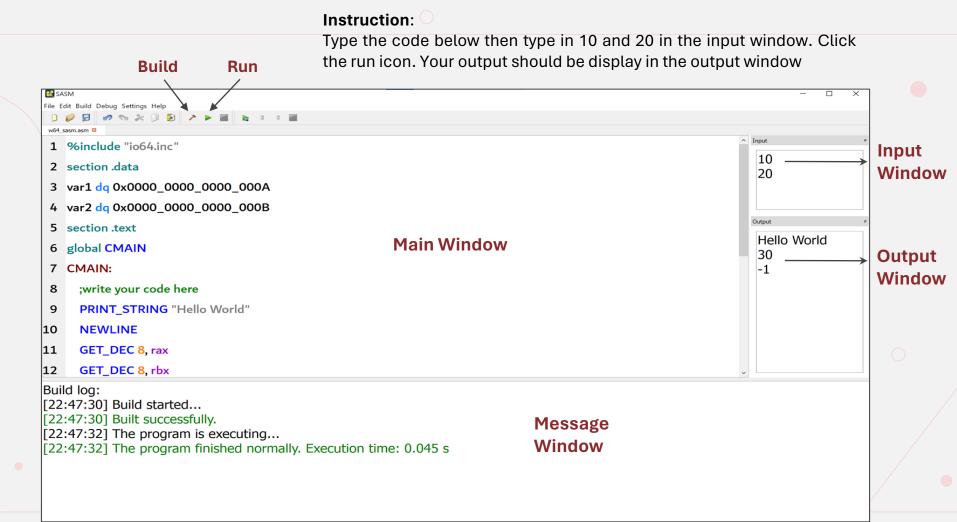
How to Download?

SASM software: http://dman95.github.io/SASM/english.html Installing SASM on Windows:

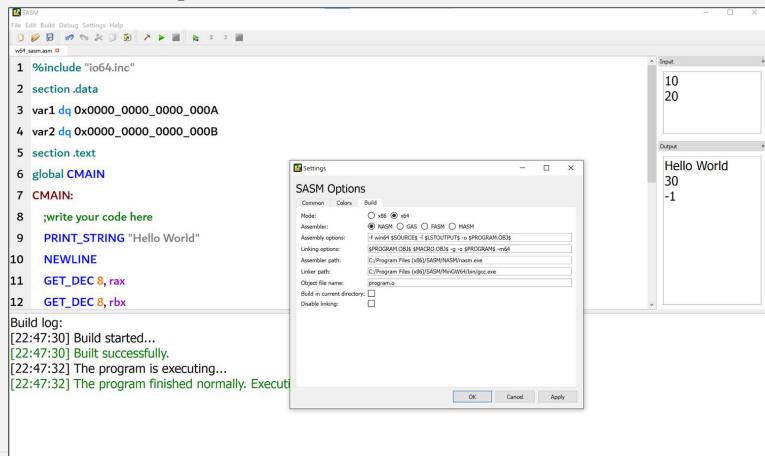
Click on the link "Download for Windows" and follow instructions

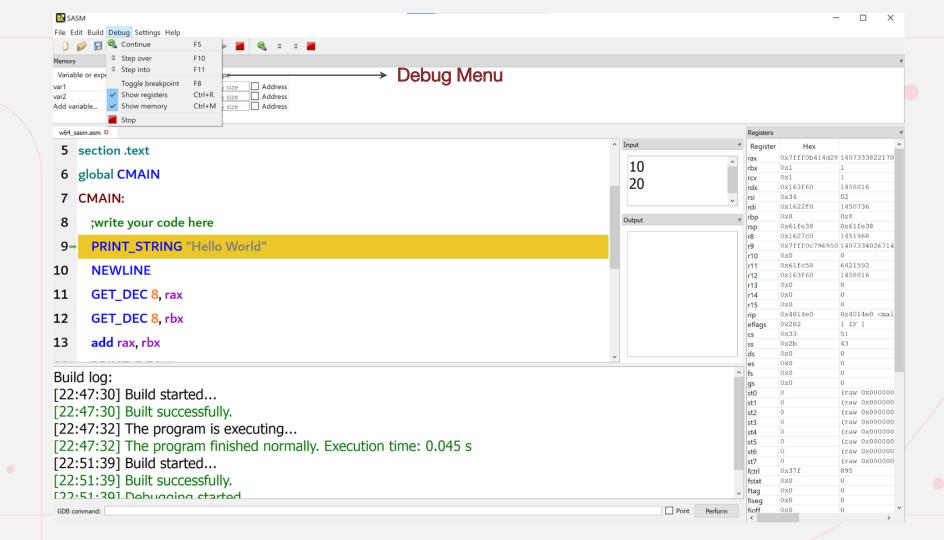
SASM Interface



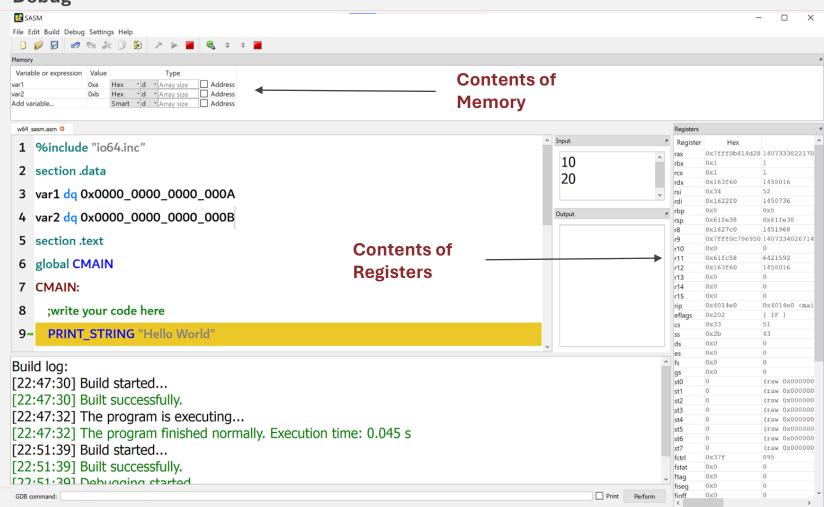


SASM Options

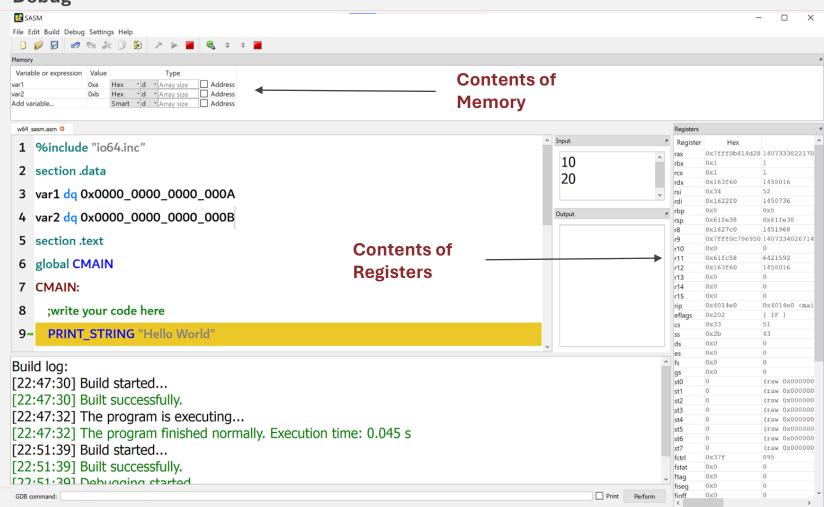




Debug



Debug

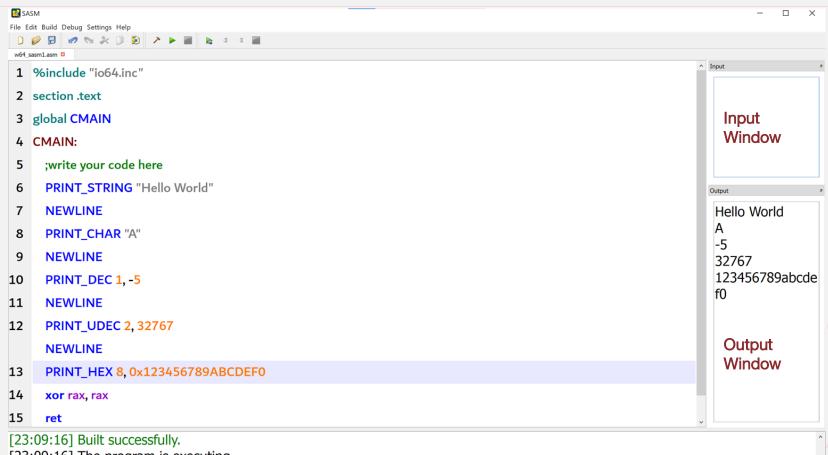


SASM using constant I/O macro (output)

SASM output macro	Description	Example
PRINT_STRING string	Print null-terminated text string	PRINT_STRING "Hello"
PRINT_CHAR ch	Print symbol <i>ch</i>	PRINT_CHAR "A"
PRINT_DEC size, data	Print number <i>data</i> in signed decimal representation	PRINT_DEC 2, -5
PRINT_UDEC size, data	Print number <i>data</i> in unsigned decimal representation	PRINT_UDEC 2, 10000
PRINT_HEX size, data	Print number <i>data</i> in hexadecimal representation	PRINT_HEX 4, 0x9ABCDEFO

- ch, data a constant, variable name, register or address
- **string** string constant, variable name or address
- size the size of data in bytes (1,2,4,8)
- Note: The byte size of "1" is not working correctly in SASM. It is the same as the byte size "2."
 - Check: PRINT_DEC 1, 32767 [It printed 32767. But what do you think should be the correct output?]

Constant Output using SASM macro



[23:09:16] The program is executing...

[23:09:17] The program finished normally. Execution time: 0.067 s