

Attempt 1

Review Feedback

06/11/2024

Attempt 1 Score: 10/10

View Feedback

Anonymous Grading: no

Unlimited Attempts Allowed

30/09/2024

Details

Complete the [MIPS Instruction Worksheet.docx \(https://slcc.instructure.com/courses/1004604/files/165676969?wrap=1\)](https://slcc.instructure.com/courses/1004604/files/165676969?wrap=1).
(https://slcc.instructure.com/courses/1004604/files/165676969/download?download_frd=1)

[MIPS Coding Reference \(https://slcc.instructure.com/courses/1004604/files/165676602/download\)](https://slcc.instructure.com/courses/1004604/files/165676602/download)

[Wikipedia MIPS Reference \(http://en.wikipedia.org/wiki/MIPS_instruction_set\)](http://en.wikipedia.org/wiki/MIPS_instruction_set)

[Waterloo MIPS Reference \(via the Internet Archive Wayback Machine\) \(https://web.archive.org/web/20130722201826/https://www.student.cs.uwaterloo.ca/~isg/res/mips/opcodes\)](https://web.archive.org/web/20130722201826/https://www.student.cs.uwaterloo.ca/~isg/res/mips/opcodes)

[Stanford MIPS Reference \(http://web.stanford.edu/class/ee282h/projects/info/isa.html\)](http://web.stanford.edu/class/ee282h/projects/info/isa.html)

View Rubric

Assignment 2.2 - MIPS Instruction Worksheet			
Criteria	Ratings		Pts
Showing step by step the process view longer description	5 pts Well done!	0 pts No Marks	/ 5 pts
Output view longer description	5 pts Full Marks	0 pts No Marks	/ 5 pts
			Total Points: 0

CSIS 2810-Fall-2024 Chapter 2 MIPS Instruction Worksheet

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Example

Instruction: OR \$s7, \$a3, \$t5, each type of instruction (R-type, I-type, J-type)

- Opcode = 0 (hex) = 000000 (binary)
- \$rs = \$a3 = 7 (decimal) = 00111 (binary)
- Srt = \$t5 = 21 (decimal) = 10101 (binary)
- \$rd = \$s7 = 23 (decimal) = 10111 (binary)
- shamt = Not used = 00000 (binary)
- funct = 25(hex) = 010101 (binary)

Binary: 000000 00111 10101 10111 00000 010101

Grouping by 4 bits: 0000 0000 0111 1010 1101 1100 0000 1010 0101

Decimal	Hex	Binary
0	0	0000
1	1	0001
2	2	0010
3	3	0011
4	4	0100
5	5	0101
6	6	0110
7	7	0111
8	8	1000
9	9	1001
10	A	1010
11	B	1011
12	C	1100
13	D	1101
14	E	1110
15	F	1111

Hexadecimal: 0x007D7B85 (0x00F5B813 doesn't make sense in the homework example)

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(<https://slcc.instructure.com/courses/1004604/modules/items/25472204>)

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(<https://slcc.instructure.com/courses/1004604/modules/item>)