Assignment 2.5. MIPS's PROGRAMS

40/40 Points

07/10/2024

Attempt 2

In Progress

NEXT UP: Submit Assignment

Add Comment

Unlimited Attempts Allowed

Details

Important Notes:

Develop the programs in MIPS using MARS IDE.

- Solutions turned in must be your own. Please comment on the program instructions.
- Use **Chapter 2.pptx (https://slcc.instructure.com/courses/1004604/files/165676521/download?wrap=1)** **(https://slcc.instructure.com/courses/1004604/files/165676521/download?download_frd=1)** , **Introduction_To_MIPS_Assembly_Language_Programming.pdf (https://slcc.instructure.com/courses/1004604/files/165676976/download?wrap=1)** **(https://slcc.instructure.com/courses/1004604/files/165676976/download?download_frd=1)** , and any other resources you can search on the web
- **Assignment5.MIPSPROGRAM.pdf (https://slcc.instructure.com/courses/1004604/files/168533300?wrap=1)** **(https://slcc.instructure.com/courses/1004604/files/168533300/download?download_frd=1)**

These resources will guide you to solve these exercises:

MIPS Examples:

Array-1.asm (https://slcc.instructure.com/courses/1004604/files/165676782?wrap=1)
(https://slcc.instructure.com/courses/1004604/files/165676782/download?download_frd=1)

array.asm (https://slcc.instructure.com/courses/1004604/files/168643779?wrap=1)
(https://slcc.instructure.com/courses/1004604/files/168643779/download?download_frd=1)

arraywithsp.asm (https://slcc.instructure.com/courses/1004604/files/168643770?wrap=1)
(https://slcc.instructure.com/courses/1004604/files/168643770/download?download_frd=1)

Example using sw.asm (https://slcc.instructure.com/courses/1004604/files/168643777?wrap=1)
(https://slcc.instructure.com/courses/1004604/files/168643777/download?download_frd=1)

Factorial-1.asm (https://slcc.instructure.com/courses/1004604/files/165676522?wrap=1)
(https://slcc.instructure.com/courses/1004604/files/165676522/download?download_frd=1)

Function-1.asm (https://slcc.instructure.com/courses/1004604/files/165676796?wrap=1)
(https://slcc.instructure.com/courses/1004604/files/165676796/download?download_frd=1)

FunctionStack-1.asm (https://slcc.instructure.com/courses/1004604/files/165676789?wrap=1)
(https://slcc.instructure.com/courses/1004604/files/165676789/download?download_frd=1)

Loop-1.asm (https://slcc.instructure.com/courses/1004604/files/165676538?wrap=1)
(https://slcc.instructure.com/courses/1004604/files/165676538/download?download_frd=1)

BankBalance-1.asm (https://slcc.instructure.com/courses/1004604/files/165676525?wrap=1)
(https://slcc.instructure.com/courses/1004604/files/165676525/download?download_frd=1)

Operation-1.asm (https://slcc.instructure.com/courses/1004604/files/165676533?wrap=1)
(https://slcc.instructure.com/courses/1004604/files/165676533/download?download_frd=1)

MIPS structures.pptx (https://slcc.instructure.com/courses/1004604/files/165676934?wrap=1)
(https://slcc.instructure.com/courses/1004604/files/165676934/download?download_frd=1)

STACK MIPS Examples.docx (https://slcc.instructure.com/courses/1004604/files/165676957?wrap=1)
(https://slcc.instructure.com/courses/1004604/files/165676957/download?download_frd=1)

Stack Mips.pdf (https://slcc.instructure.com/courses/1004604/files/165676974?wrap=1) (https://slcc.instructure.com/courses/1004604/files/165676974/download?download_frd=1)

http://www.c-jump.com/bcc/c262c/MIPSAssembly/index.html (http://www.c-jump.com/bcc/c262c/MIPSAssembly/index.html)

Introduction to function:

https://youtu.be/easyXk-BUg0 (https://youtu.be/easyXk-BUg0)

(https://youtu.be/easyXk-BUg0)

Function Arguments and Return Values:

https://youtu.be/_KLfGJRI5_Q (https://youtu.be/_KLfGJRI5_Q)

(https://youtu.be/_KLfGJRI5_Q)

Saving Registers to the Stack

https://youtu.be/3napwKvocSU (https://youtu.be/3napwKvocSU)

(https://youtu.be/3napwKvocSU)

Nested Procedures

https://youtu.be/E0PHijf0P7g (https://youtu.be/E0PHijf0P7g)

(https://youtu.be/E0PHijf0P7g)

Submission

If you finish them in class. Please, show and run the program displaying the expected output in front of me and then submit the .asm files.

Otherwise, this lab requires a video and .asm files submission to practice explaining the code you wrote.

1. Create a screen recording that is **40 - 80 seconds** long.
   Following the Guidelines for Assignment/Lab Recordings (https://slcc.instructure.com/courses/703332/pages/guidelines-for-assignment-slash-lab-recordings)
2. Submit the video **as .mp4 or text file.**

View Rubric

Assign 3 - Simple Math

Criteria	Ratings	Pts
Comments, indentation and placement of {} per Style Guide.		/ 5 pts
File named as specified.		/ 5 pts
Prompt user for n		/ 5 pts
Calculate the Fibonacci series		/ 5 pts
Create the array		/ 5 pts
Use the Sp instruction		/ 5 pts
Find and display the smallest of the 5 integers.		/ 5 pts
Display the Outputs		/ 5 pts
		Total Points: 0

Choose a submission type

Text | Media | Upload | Office 365 | More

MIPS's PR... Bird.mp4

(https://slcc.instructure.com/courses/1004604/modules/items/25472205)

Ca
Attempt
2

(https://slcc.instructure.com/courses/1004604/modules/items/25472208)

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Assignment