Student Name:	Lab 11

Implement the following procedure in MIPS.

Use \$s0, \$s1, \$s2 registers for f, k and sum variables. This means you will need to push \$s0,\$s1,and \$s2 to the stack at the beginning of the procedure and pop them off at the end of the procedure. Also, make sure you return the sum in \$v0.

Define the following in your data section:

.data

```
g: .word 10
h: .word 15
i: .word 3
x: .word 2
test: .word 56
test2: .word 78
test3: .word 91
```

In your main line code,

- load g,h,i, and x into \$a0-\$a3 registers.
- Load the value of test into \$s0, test2 into \$s1, and test3 into \$s2.
- Call sum proc, passing g,h,i, and x into the procedure (in \$a0-\$a3)
- Print the value returned from sum_proc.
- Finally, print the value in \$s0,\$s1, and \$s2 to make sure it has been restored from the stack in your procedure.

Example Execution:

```
Returned value = 35
s0 = 56
s1 = 78
s2 = 91
```

The following is required for all assignments and is included in the rubric for grading:

- You need to name your file as "LastName-Name-Lab11.asm" (Example: Talley-Michelle-Lab11.asm)
- Your program will need to have the exact output unless otherwise stated.
- Your source needs to have comments that explain your implementation.
- Your procedures need to begin with a standard comment section.
- You need to include the following set of comments at the top of your source code for all assignments.

#Your Name

#Assignment # (Example: Lab #11)

- You need to submit your source code on blackboard.
- Please submit your files in a zip file named LastName-FirstName- Lab11.zip) and make sure you include any files that are used as includes in the zip file (Example: utils.asm).