

LAB 4

Due Aug 31 by 3:30pm **Points** 10 **Submitting** a file upload **Available** until Aug 31 at 3:30pm

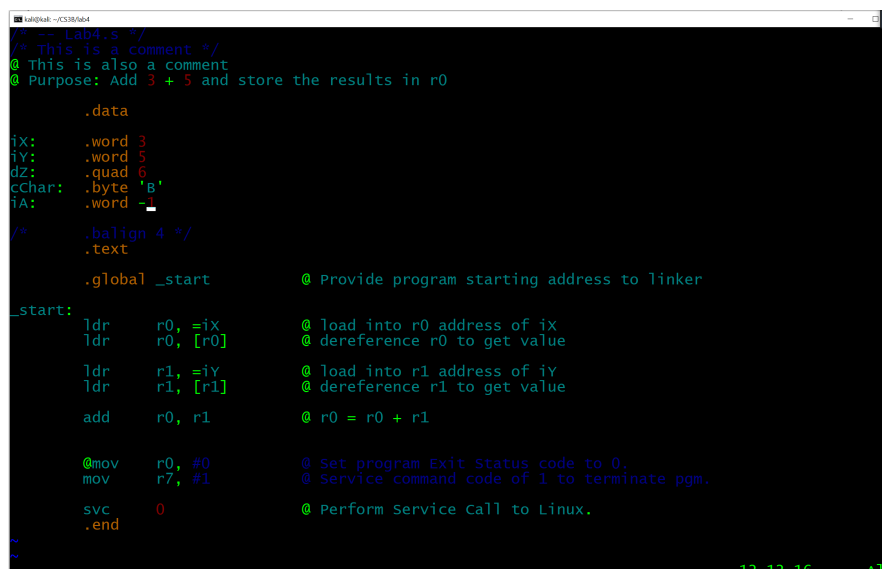
This assignment was locked Aug 31 at 3:30pm.

Install GEF

```
wget -O ~/.gdbinit-gef.py -q https://github.com/hugsy/gef/raw/master/gef.py
```

```
echo source ~/.gdbinit-gef.py >> ~/.gdbinit
```

```
gdb -q ./lab4
```



```
lab4.s
/* lab4.s */
/* This is a comment */
@ This is also a comment
@ Purpose: Add 3 + 5 and store the results in r0

.data
ix:    .word 3
iy:    .word 5
dz:    .quad 6
cChar: .byte 'B'
iA:    .word -1

/* .balign 4 */
.text

.global _start    @ Provide program starting address to linker

_start:
ldr     r0, =ix      @ load into r0 address of ix
ldr     r0, [r0]      @ dereference r0 to get value

ldr     r1, =iy      @ load into r1 address of iy
ldr     r1, [r1]      @ dereference r1 to get value

add     r0, r1        @ r0 = r0 + r1

@mov     r0, #0        @ Set program Exit Status code to 0,
mov     r7, #1        @ Service command code of 1 to terminate pgm.

svc     0             @ Perform Service Call to Linux.

.end
```

1. Once inside gdb/gef, type

```
entry-break
```

2. use the 'x' command to display memory ...

x/#ofbytes format(hex) (byte)



Submission Requirements: Upload the lab4.s and lab4.png showing within GDB/GEF the memory map of all your variables.