TPS Activity 1

Starts at 0x00004020 and starting address of Data

0x10010000.

The column labeled as “Source” contains a copy of your assembly language code with all of the comments, labels, and assembler directives. The next column to the left is labeled “Basic” which shows the code that is actually being executed. The main difference between the Source and Basic columns is the result of pseudo-instructions.

The difference in 2 addresses of data segment is 32 bytes

For each address location in data segment, there are 8 columns.

First column is 4 bytes away from the base address and then every column after is 4 bytes away from the previous column

M: .word 20

Value of M is stored at 0x10010004

str1: .asciiz "I love CSE31!\n"

str1 is located at 0x10010008, 0x1001000C, and 0x10010010

Yes

```
li $v0, 4 #system call code for printing string = 4
la $a0, str1 #load address of string to be printed into $a0
syscall
```

“la $t3, n” loads address of n into $t3

TPS Activity 2

Simpler is Better

n:

str1:

str2:

str3:

str4:

4. li $v0, 5 syscall

move $t0, $v0

.word25

.asciiz "Less than\n"

.asciiz "Less than or equal to\n" .asciiz "Greater than\n"

.asciiz "Greater than or equal to\n"