**Lab Report 7**

**Ass1**

Text

Description automatically generated

Graphical user interface, table

Description automatically generated

After jal, $ra stores the address of the next instruction. After jr, $pc and $ra store same value.

**Ass2**

Text, application

Description automatically generated

Graphical user interface, application, table, Excel

Description automatically generated

After jal, $ra stores the address of the next instruction. After jr, $pc and $ra store same value.

**Ass3**

Calendar

Description automatically generated

A screenshot of a computer

Description automatically generated with medium confidence

**Ass4**

Text

Description automatically generated

Graphical user interface, application, table, Excel

Description automatically generated

Change in registers:

$pc: 0x00400000 -> 0x00400020 -> … -> 0x00400014

$ra: 0x00000000 -> 0x00400004 -> 0x00400038 -> 0x00400080 -> 0x00400038 -> 0x00400004

$sp: 0x7fffeffc -> 0x7fffeff4 -> 0x7fffefe8 -> 0x7fffefdc -> 0x7fffefd0 -> 0x7fffefdc -> 0x7fffefe8 -> 0x7fffeff4 -> 0x7fffeffc

$fp: 0x00000000 -> 0x7fffeffc -> 0x7fffeff4 -> 0x7fffefe8 -> 0x7fffefdc -> 0x7fffefe8 -> 0x7fffeff4 -> 0x7fffeffc -> 0x00000000

Stack:

|  |  |
| --- | --- |
| $a0 | 0x00000001 |
| $ra | 0x00400080 |
| $fp | 0x7fffefe8 |
| $a0 | 0x00000002 |
| $ra | 0x00400080 |
| $fp | 0x7fffeff4 |
| $a0 | 0x00000003 |
| $ra | 0x00400038 |
| $fp | 0x7fffeffc |
| $ra | 0x00400004 |
| $fp | 0x00000000 |