Daisy Opanga

SCT212-0052/2021

LAB 2

**A.**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Instruction | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 18 | 19 | 20 | 21 |
| LD | I | D | E | M | W |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| STALLS |  |  |  |  | S | S |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| DADDI |  |  |  |  |  | I | D | E | M | W |  |  |  |  |  |  |  |  |  |  |
| STALLS |  |  |  |  |  |  |  |  |  | S | S |  |  |  |  |  |  |  |  |  |
| SD |  |  |  |  |  |  |  |  |  |  | I | D | E | M | W |  |  |  |  |  |
| DADDI |  |  |  |  |  |  |  |  |  |  |  | I | D | E | M | W |  |  |  |  |
| STALLS |  |  |  |  |  |  |  |  |  |  |  |  |  |  | S | S |  |  |  |  |
| DSUB |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | I | D | E | M | W |
| STALLS |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | S |  |  |
| BNEZ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | I | D; flush |

**B.**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Instruction | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| LD | I | D | E | M | W |  |  |  |  |  |
| DADDI |  | I | D | E | M | W |  |  |  |  |
| SD |  |  | I | D | E | M | W |  |  |  |
| DADDI |  |  |  | I | D | E | M | W |  |  |
| DSUB |  |  |  |  | I | D | E | M | W |  |
| BNEZ |  |  |  |  |  | I | D | E | M | W |

**C.**

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Instruction | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |  |
| LD | I | D | E | M | W |  |  |  |  |  |  |  |
| DADDI |  | I | D | E | M | W |  |  |  |  |  |  |
| SD |  |  | I | D | E | M | W |  |  |  |  |  |
| DADDI |  |  |  | I | D | E | M | W |  |  |  |  |
| DSUB |  |  |  |  | I | D | E | M | W |  |  |  |
| BNEZ |  |  |  |  |  | I | D | E | M | W |  |  |
| DADDI |  |  |  |  |  |  | I | D | E | M | W | ; delay slot |