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| Assembly Instruction | Hex Representation | Comment/Remark |
| addi R1 R0 3 | 4023 | R1 will have the value = 3 |
| addi R2 R0 1 | 4041 | R2 will have the value= 1 |
| add R3 R1 R2 | 094c | R3 will have the value= 4 |
| or R3 R1 R2 | 014e | R3 will have the value= 3 |
| xor R3 R1 R2 | 014f | R3 will have the value= 2 |
| add R3 R1 R2 | 094c | R3 will have the value= 4 |
| nadd R3 R1 R2 | 094d | R3 will have the value= -2 |
| seq R3 R1 R1 | 092e | R3 will have the value= 1 |
| slt R3 R2 R1 | 0a2f | R3 will have the value= 1 |
| andi R3 R1 5 | 2165 | R3 will have the value= 1 |
| candi R3 R1 5 | 2965 | R3 will have the value= = - 2 |
| ori R3 R1 5 | 3165 | R3 will have the value= 7 |
| xori R3 R1 5 | 3965 | R3 will have the value= 6 |
| addi R3 R1 5 | 4165 | R3 will have the value= 8 |
| naddi R3 R1 5 | 4965 | R3 will have the value= 2 |
| seqi R3 R1 5 | 5165 | R3 will have the value= 0 |
| slti R3 R1 5 | 5965 | R3 will have the value= 1 |
| sll R3 R1 1 | 6161 | R3 will have the value= 6 |
| srl R3 R1 1 | 6961 | R3 will have the value= 1 |
| sra R3 R1 1 | 7161 | R3 will have the value= 1 |
| ror R3 R1 1 | 7961 | R3 will have the value= -2147483647 |
| bne R1 R2 L2 | 8943 | It will take branch to L2, because R1 (3) not equal to R2 (1). |
| add R0 R0 R0 | 0800 | Dummy instruction |
| add R0 R0 R0 | 0800 | Dummy instruction |
| blt R1 R2 L3 | 9143 | It will not take branch to L2, because R1 (3) not less than R2 (1). |
| add R0 R0 R0 | 0800 | Dummy instruction |
| add R0 R0 R0 | 0800 | Dummy instruction |
| bge R1 R2 L4 | 9943 | It will take branch to L2, because R1 (3) greater than R2 (1). |
| add R0 R0 R0 | 0800 | Dummy instruction |
| add R0 R0 R0 | 0800 | Dummy instruction |
| sw R1 1(R2) | Aa21 | R1 will have the value= 1 |
| lw R3 1(R2) | A261 | R3 will have the value= 3 |
| addi R1 R1 1  Imm 100 | 4121  F064 | R1 will have the value = 1600 |
| J L6 | e002 | New address= address +2 |
| add R0 R0 R0 | 0800 | Dummy instruction |
| jal L6 | e802 | R7= address  New address= address +2, |
| add R0 R0 R0 | 0800 | Dummy instruction |
| jalr R1 R0 | d900 | R1=address+1  New address= 0 |