**Test Cases**

**Assignment 3:**

**Testcase 1: LW variations:**

Lw $r1, ($r2)

Lw $r1, 4($r2)

Lw $r1, 1000

Lw $r1, $r2

**Testcase 2:**

addi $t2,$t2,25

addi $t3,$t3,30

add $t4,$t3,$t2

mul $t5,$t3,$t2

sub $t6,$t2,$t3

**Testcase 3:**

sw $r0, 5000000000000($r2)

**Testcase 4:**

slt $r2, $zero, $r1

**Testcase 5:**

add $r3, $r0, $r48

**Testcase 6:**

addi $r1, $r1, 8

add $r4, $r0, $r1

j 20 //Last Instruction

add $r4, $r4, $r1

sub $r1, $r4, $r1

**Testcase 7:**

addi $r0, $r0, 5

addi $r3, $zero,0

sw $r0, 1000($r3)

lw $r2, 1000($r3)

**Testcase 8:**

addi $r2, $zero, 2

addi $r1, $zero, 256

mul $r2, $r2, $r2     //3

bne $r2, $r1, 8   //third instruction from the top

addi $r4, $r2, 3

**Testcase9:**

addi $a1, $zero, 13

addi $a0, $zero, 2

j jump

addi $a0, $zero, 3

jump:

addi $t5, $zero, 2

beq $t5,$a0,12  //instruction 4th

**Testcase 10:**

Addi $zero, $zero, 1

**Minor:**

**Testcase1:**

lw $t0,1

Addi $t1, $zero, 2

Add $t2, $t0, $t1

**Testcase2:**

addi $t0, $zero, 1

sw $t0, 1000

lw $t0, 1000

**Testcase3:**

Addi $t0, $zero, 1

sw $t0, 1000

Sw $t0, 1024

Lw $t0, 1000

Lw $t1, 1024

Add $t0, $t0, $t1

**Testcase4:**

Initially:

1000=>1, $t1===>2, $t2===>3, $t0===>10, t3⇒ 4

1. Lw $t0, 1000

Add $t0, $t1, $t2

1. Lw $t0, 1000

Add $t1, $t1, $t0

1. Lw $t0, 1000

Sw $t0, 1004

1. Lw $t0, 1000

Sw $t1, 1024

1. Lw $t0, 1000

Sw $t1, 1000

1. Lw $t0, 1000

Add $t1, $t2, $t3

1. Lw $t0, 1000

Sw $t1, 1000

Add $t2, $t0, $t3

**Testcase5:**

Sw $t0, 1000

Add $t0, $t1, $t2

1. Sw $t0, 1000

Add $t1, $t0, $t0

1. Sw $t0, 1000

Add $t1, $t1, $t1

1. Sw $t0, 1000

Lw $t0, 1000

1. Sw $t0, 1000

Lw $t0, 1024

1. Sw $t0, 1000

Lw $t1, 1000

1. Sw $t0, 1000

Lw $t1, 1024

**Testcase6:**

addi $t0, $zero,1

sw $t0, $1020

**Testcase7:**

addi $t0, $zero,1

addi $t1, $zero,2

sw $t1, $2044

add $t0, $t0, $t1

lw $t0, 2044

add $t0, $t0, $t1