**- add , sub, and, or, addi , andi, ori, xor**

**- slt, slti, j, jr**

**- jal, sll, srl, sra, beq, bne**

**- lui, mult, div**

**- lw, sw, lb, sb, mfhi, mflo**

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*SAMPLE CODE 1\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

**addi $t2, $t2, 20**

**addi $t0, $t0, 20**

**mult $t0, $t2**

**div $t2, $t0**

**j label3**

**ori $t3, $t1, 3**

**xor $t3, $t1, $s0**

**label3:**

**add $t4, $t3, $t0**

**sub $t5, $t0, $t3**

**or $t0, $t3, $t1**

**slt $t0, $t3, $t1**

**addi $t7, $t0, 7**

**andi $t3, $t1, 3**

**and $t6, $t5, $t4**

**addi $t0, $zero, 60**

**addi $t3, $zero, 10**

**mult $t3, $t0**

**mfhi $t1**

**mflo $t1**

**slti $t3, $t1, 3**

**sll $t4, $t3, 4**

**srl $t4, $t3, 2**

**sra $t3, $t1, 3**

**ori $t3, $t1, 3**

**xor $t3, $t1, $s0**

**addi $t6, $t0, 7**

**slt $t0, $t3, $t1**

**andi $t3, $t1, 3**

**addi $t1, $zero, 76**

**mfhi $t3**

**mflo $t3**

**xor $t3, $t1, $s0**

**lui $t4, 976**

**- add , sub, and, or, addi , andi, ori, xor**

**- slt, slti, j, jr**

**- jal, sll, srl, sra, beq, bne**

**- lui, mult, div**

**- lw, sw, lb, sb, mfhi, mflo**

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*SAMPLE CODE 2\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

**addi $t2, $t2, 20**

**addi $t0, $t0, 20**

**mult $t0, $t2**

**addi $t7, $zero, 2**

**addi $t1, $zero, 6**

**jal label3**

**lui $t5, 178**

**lui $t6, 537**

**label3:**

**addi $t4, $t3, 41**

**ori $t5, $t0, 63**

**or $t0, $t3, $t1**

**addi $t7, $t7, 2**

**beq $t7, $t1, end**

**jr $ra**

**end:**

**addi $t0, $t0, 20**

**mult $t0, $t2**

**- add , sub, and, or, addi , andi, ori, xor**

**- slt, slti, j, jr**

**- jal, sll, srl, sra, beq, bne**

**- lui, mult, div**

**- lw, sw, lb, sb, mfhi, mflo**

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* SAMPLE CODE 3 \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

**addi $t7, $zero, 2**

**loop:**

**addi $t1, $zero, 15**

**addi $t1, $t1, 1**

**addi $t1, $t1, 2**

**addi $t1, $t1, 3**

**addi $t1, $t1, 4**

**addi $t6, $t6, 1**

**addi $t3, $zero, 0**

**bne $t6, $t7, loop**

**addi $t2, $zero, 0**

**ori $t2, $zero, 15**

**ori $t3, $t3, 15**

**andi $t6, $t3, 15**

**and $t6, $t6, $t7**

**addi $t7, $zero, 66**

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

**- add , sub, and, or, addi , andi, ori, xor**

**- slt, slti, j, jr**

**- jal, sll, srl, sra, beq, bne**

**- lui, mult, div**

**- lw, sw, lb, sb, mfhi, mflo**

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* SAMPLE CODE 4 \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

**addi $t7, $zero, 2**

**addi $t6, $zero, 1**

**loop:**

**addi $t1, $zero, 15**

**addi $t1, $t1, 1**

**addi $t1, $t1, 2**

**addi $t1, $t1, 3**

**addi $t1, $t1, 4**

**addi $t6, $t6, 1**

**addi $t3, $zero, 0**

**beq $t6, $t7, loop**

**ori $t2, $zero, 15**

**ori $t3, $t3, 38**

**andi $t6, $t3, 37**

**and $t6, $t6, $t7**

**addi $t7, $zero, 71**

**- add , sub, and, or, addi , andi, ori, xor**

**- slt, slti, j, jr**

**- jal, sll, srl, sra, beq, bne**

**- lui, mult, div**

**- lw, sw, lb, sb, mfhi, mflo**

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* SAMPLE CODE 5 \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

**addi $t0, $zero, 20**

**addi $t1, $zero, 0x10010000**

**sw $t0, 0($t1)**

**addi $t0, $t0, 5**

**sw $t0, 4($t1)**

**addi $t0, $t0, 5**

**sw $t0, 8($t1)**

**lw $t2, 0($t1)**

**lw $t3, 4($t1)**

**lw $t3, 8($t1)**

**- add , sub, and, or, addi , andi, ori, xor**

**- slt, slti, j, jr**

**- jal, sll, srl, sra, beq, bne**

**- lui, mult, div**

**- lw, sw, lb, sb, mfhi, mflo**

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* SAMPLE CODE 6 \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

**addi $s0, $zero, 0x10010000**

**addi $t0, $zero, 60**

**addi $t1, $zero, 65**

**addi $t2, $zero, 70**

**addi $t3, $zero, 75**

**sb $t0, 0($s0)**

**sb $t1, 1($s0)**

**sb $t2, 2($s0)**

**sb $t3, 3($s0)**

**lb $t4, 3($s0)**

**lb $t5, 0($s0)**

**lb $t6, 1($s0)**

**lb $t7, 2($s0)**