First Program (**Fibonacci numbers)**

|  |  |
| --- | --- |
| Assembly  **LW $v1 0x0000 $zero** LW $a0 0x0001 $zeroLW $a1 0x0002 $zeroLW $at 0x0002 $zeroADD $a0 $a0 $a1BEQ $v1 $zero 0x0004ADD $a0 $a0 $a1SUB $a1 $a0 $a1ADD $v1 $v1 $atBEQ $zero $zero EXITSW $a0 0x0006 $zeroEXIT: | binary  1000 1100 0000 0011 0000 0000 0000 0000  1000 1100 0000 0100 0000 0000 0000 0001  1000 1100 0000 0101 0000 0000 0000 0010  1000 1100 0000 0001 0000 0000 0000 0010  0001 0000 0110 0000 0000 0000 0000 0100  0000 0000 1000 0101 0010 0000 0010 0000 |

Second Program(Hazard)

00100010001100010000000000000101

00100000000010000000000000000111

10101101000100010000000000000101

10001101000100100000000000000101

addi $s1,$s1,5

addi $t0,$zero,7

sw $s1,5($t0)

lw $s2,5($t0)

Third Program

# SW $a0 0x0006 $zero

# SW $zero 0x0004 $zero

# ORI $s4 $zero 0x0010

00100000000100110000000000010010

### 10101100000000000000000000000100

### 00110100000101000000000000010000

20130012

ac000004

34140010