*Tên: Trần Công Quang*

*Lớp: CR 250 SC*

**KIỂM TRA 1**

**BÀI LÀM**

1. **Mã hóa các lệnh sau ra mã máy.**

**Addo $s0, $0, 0x2010**

|  |  |  |  |
| --- | --- | --- | --- |
| **op** | **rs** | **rt** | **Imm** |
| **8** | **0** | **16** | **0x2010** |
| **001000** | **00000** | **10000** | **0010 0000 0001 0000** |
| **0010 0000 0001 0000 0010 0000 0001 0000** | | | |

**Addi $s0, $0, 0x2010 = 0x20102010**

**jr $s0**

|  |  |
| --- | --- |
| **op** | **Addr** |
| **000000** | **00000000000000000000010000** |

**Addi $s1, $0, 1**

|  |  |  |  |
| --- | --- | --- | --- |
| **op** | **rs** | **rt** | **Imm** |
| **8** | **0** | **17** | **1** |
| **001000** | **00000** | **10001** | **0000 0000 0000 0001** |
| **0010 0000 0001 0001 0000 0000 0000 0001** | | | |

**Addi $s1, $0, 1 = 0x20110001**

**Ara $s1, 2**

**Lw $s3, 44($s1)**

|  |  |  |  |
| --- | --- | --- | --- |
| **op** | **rs** | **rt** | **Imm** |
| **35** | **17** | **19** | **44** |
| **001000** | **10001** | **10011** | **0010 0000 0010 1100** |
| **0010 0010 0011 0000 0010 0000 0010 1100** | | | |

**Lw $s3, 44($s1) = 0x2233002C**

1. **Giá trị thanh ghi PC sau lệnh jr là: 0x00002010**