Abdurrahman Bulut 150104225B CSE 331-501 Midterm Examination

I hereby pledge that I will strictly adhere to academic integrity codes and the work done on this examination is solely my own and I will not receive/give any help from/to anybody or source during this examination.

Q2)

a) word label address → 0x10010000

```
words: .word 0x...
       .text
       .globl main

main:
       la $s0, word
       addi $t1
       lw
       ori

cikk:
       sw
       sra
       sll
       addi
       j cikk

Portakal: or $s3
          sw $s3
          sub $t2
          j cikk
```

→ Adr(.word) = 0x10010000

→ Adr(.text) = 0x10010004

→ Adr(.global) = 0x10010008

→ Adr(Main) = 0x1001000C

→ $s0 = 0x1001 0000

→ $t1 = 0x00001280 ** 0x...12AL + 12

→ $s1 = 0x00001AL

→ $s2 = 0x300A283

→ $s3 = 4

→ Cikk = 0x10010000 + 32 = 0x10010020

→ Portakal = 0x1001 0020 + 24 = 0x10010038

→ $s3 = 0x

; zaman yetmedi

b) ori $s3, $zero, 4 * I type =) d (6bit) zero (5bit) $19 (5bit) 4 (16bit)

* ori rs rt immediate

beq $s3, $zero, Portakal * I type =) 4 (6bit) $19 (5bit) $zero (5bit) Portakal (16bit)

j cikk * J type 2 (6bit) Cikk (26bits)

=) 0011 0100 0001 0011 0000 0000 0000 0100 * ori . .

=) 0001 0010 0110 0000 0000 0000 0010 0110 * beq . 0x10010038

0000 10 0000 0000 0001 0100 * j . . . 0x10010020