İstanbul Bilgi University Department of Computer Engineering

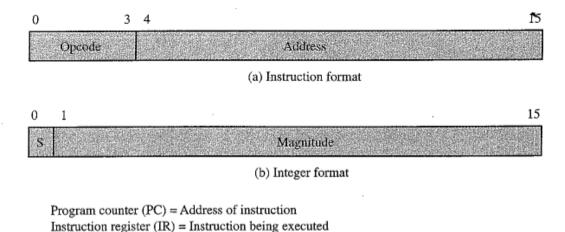
SPRING, 2021
Campus: Santral
CMPE 312: OPERATING SYSTEMS

Homework

(Duration: minutes)

Name:	
Student ID:	

NOTE: Do this HW at home. We will check at lecture' time. No need to handle it.



1. $\{100 \text{ points}\}\ \text{Example of program execution:}$

Accumulator (AC) = Temporary storage

(a) $\{20 \text{ points}\}\$ Define your own hypothetical machine by fixing the hexadecimal code for at least 3 instructions; one of them MUST be a "jump"

(c) Internal CPU registers

- (b) {20 points} Create your own piece of code containing one jump instruction, and
- (c) $\{60 \text{ points}\}\$ Execute it by showing the relevant portion of memory's cells, and registers' contents at every steps of the fetch-execute cycle 1

¹Ref: 'A Top-Level View of Computer Function and Interconnection' by William Stalling