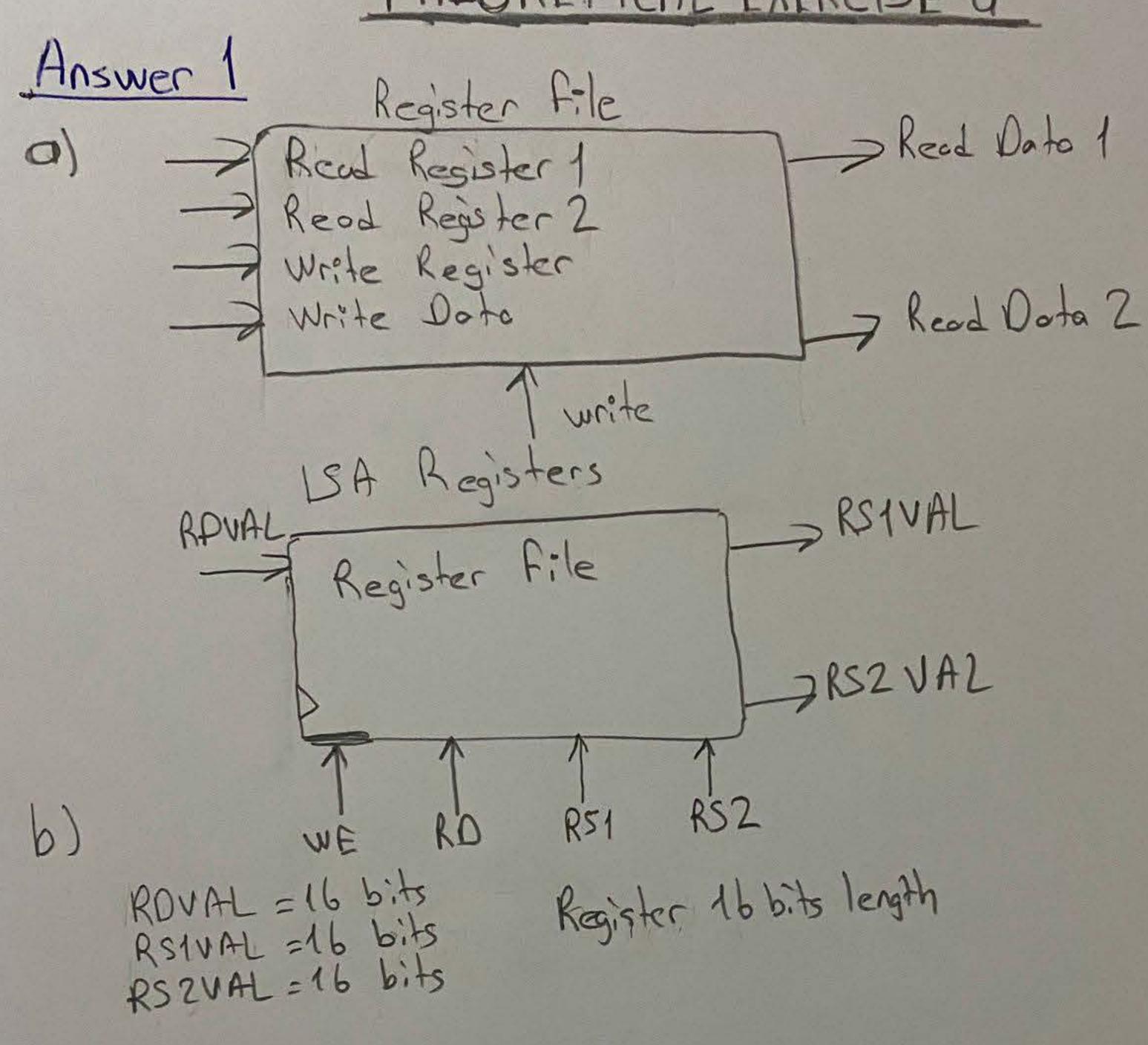
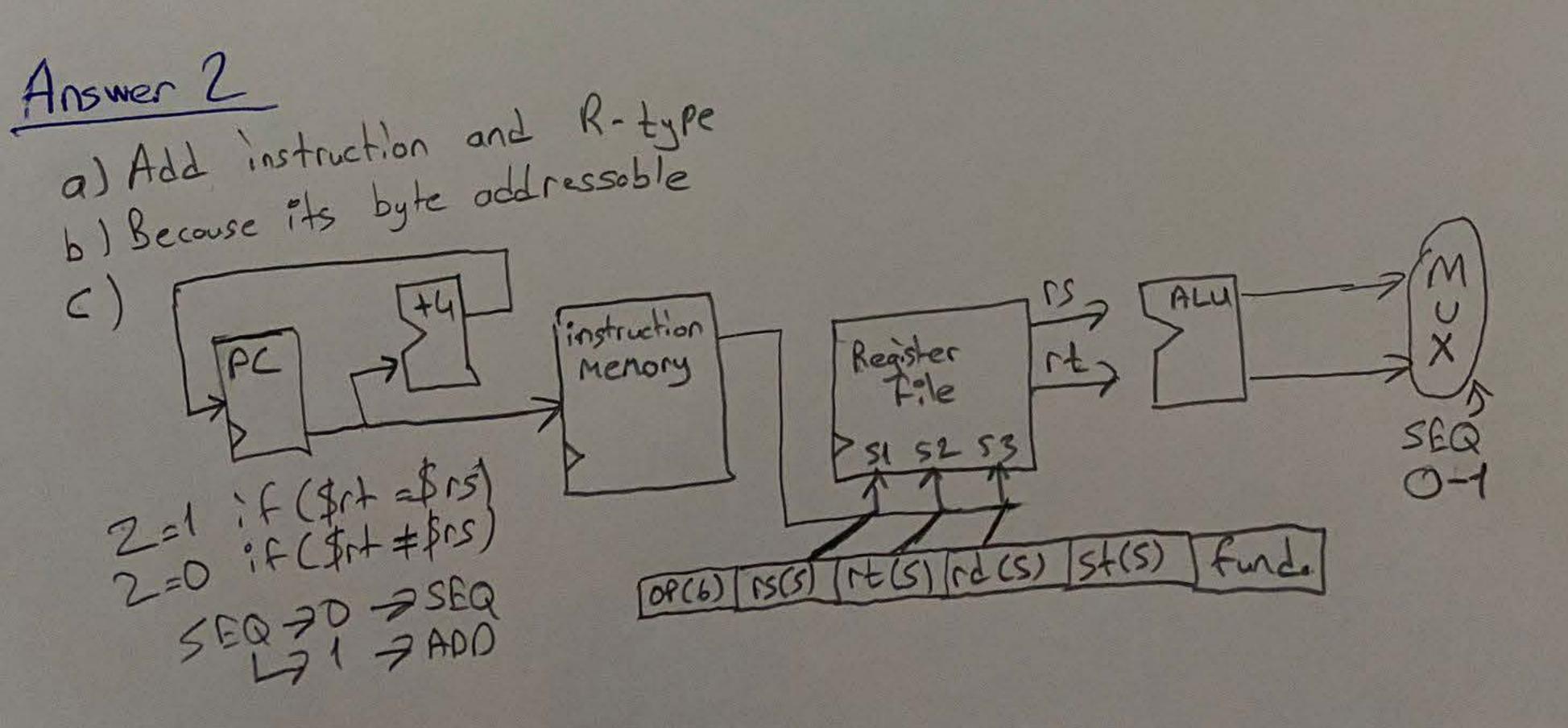
THEORETICAL EXERCISE 4



() $2^{2}=2$ n=1 \Rightarrow RD=1b:+ RS1=1b:+ RS2=1b:+



Answer 3

- a) Bronch instruction because B-Type is used and BR is 1.
- b) 2=0 = PC+4 2=1 -> PC+4+shift
- C) There is no return to the register file, so control signols are not used.

Answer 4

- a) rwe=1, br=0, up=0, Aluop=0 AluinB=1, Awd=0, rds+=0 1) drive = don't core
 - b) ALU: nB=1, Aluq=0, dnwe=1, rdst=0, sp=0, br=0
 rwd=dent core rwe=dent core
 - c) sp=1 br=0

Answer 5

- 0) opcode 7 000
- b) opcode 7 010
- c) Its depends on the sw instruction being 1,
- d) addi=0 SW = 00

Emre Koya 2000006713