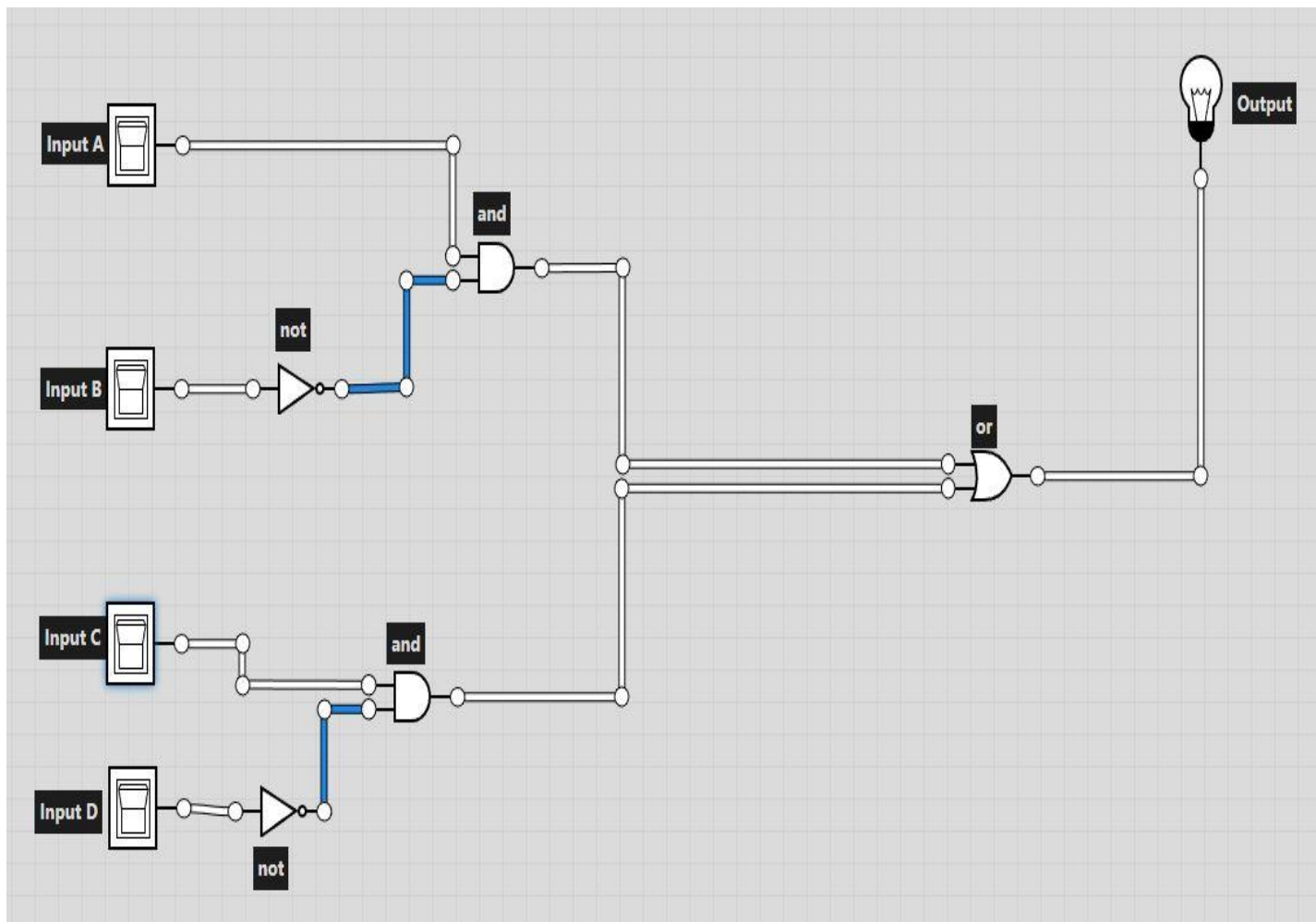


2.



Question 3 on next page

Q3

The new iaddq is best achieved by modifying the structure of irmovq

By decoding rB and placing it into the execute function in place of 0, essentially combining the two

iaddq V, rB

Fetch:

lcode: ifun <- M1[PC]

rA:rB <- M1[PC+1]

ValC <- M8[PC+2]

ValP <- PC+10

Decode:

valB <- R[rB]

Execute:

valE <- valB + valC

SetCC

Memory:

Write Back:

R[rB] <- valE

PC Update:

PC <- ValP