WEEK 6 CSE

An automobile alarm circuit used to detect certainundesirable conditions.The three switches areused to indicate the status of the door(D),the ignition(IS), and theheadlights(HS),respectively.
Design a logic circuit with these switches as inputs so that the alarm(A) will be activated only when ever either of the following conditions exists:

●The headlights are ON while the ignition is OFF
●The door is open while the ignition is ON

Implement The Above Circuit Using:(1) A 3:8 decoder(74HC238IC) and suitable2-input logic gates.