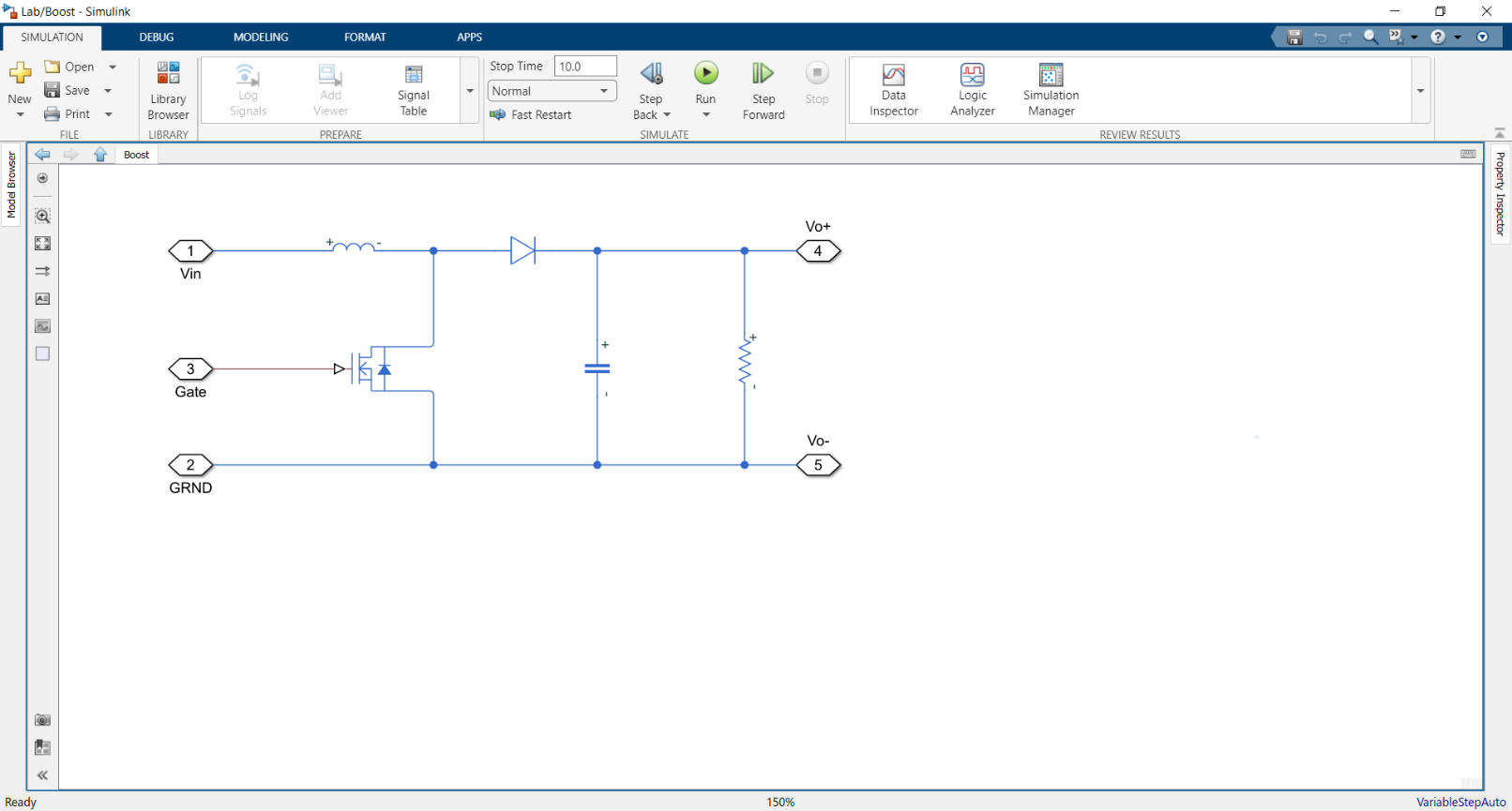
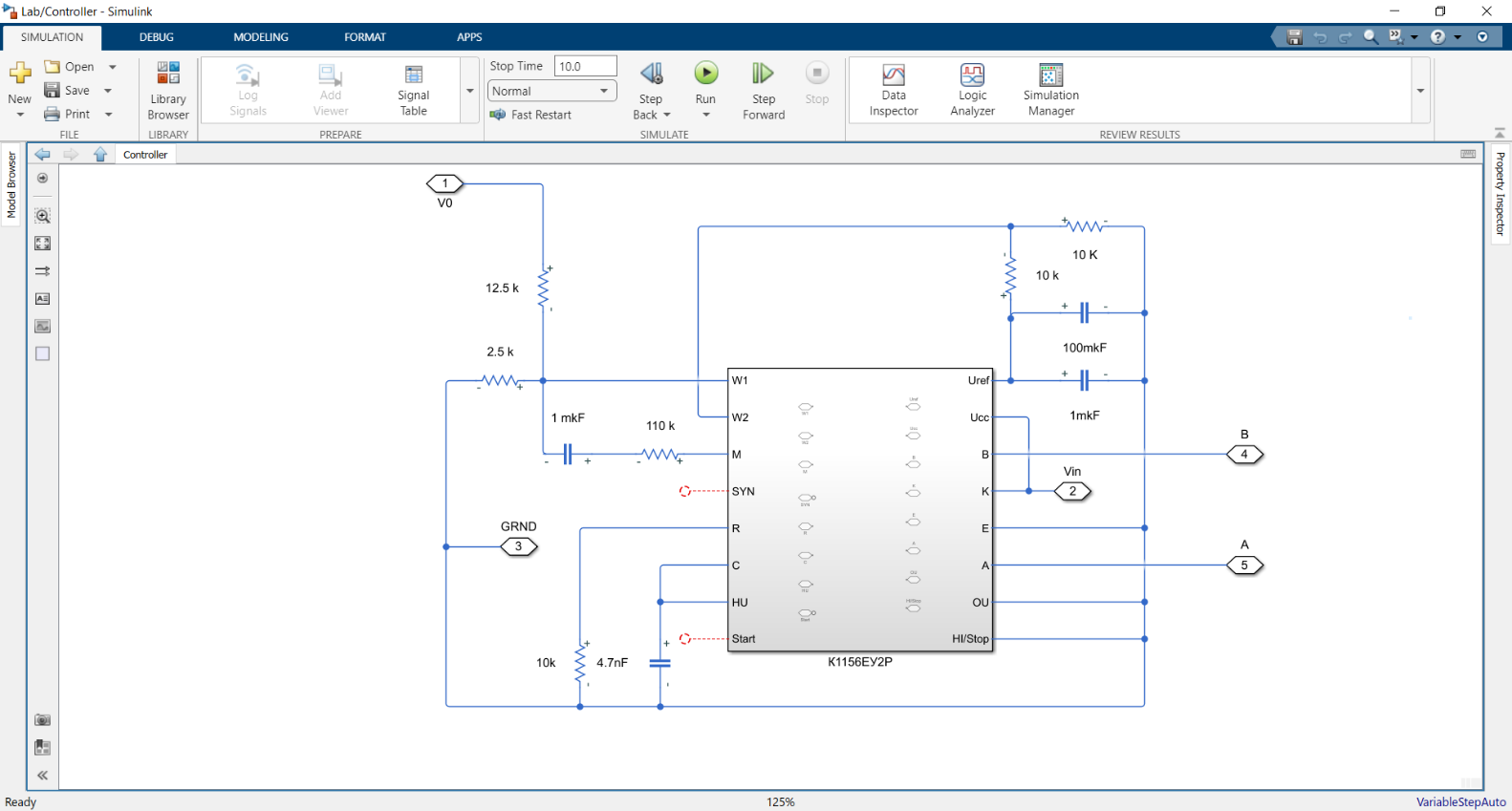
Task#....

Construct boost converter with PI control.

Progress:

*Construction of controller:*

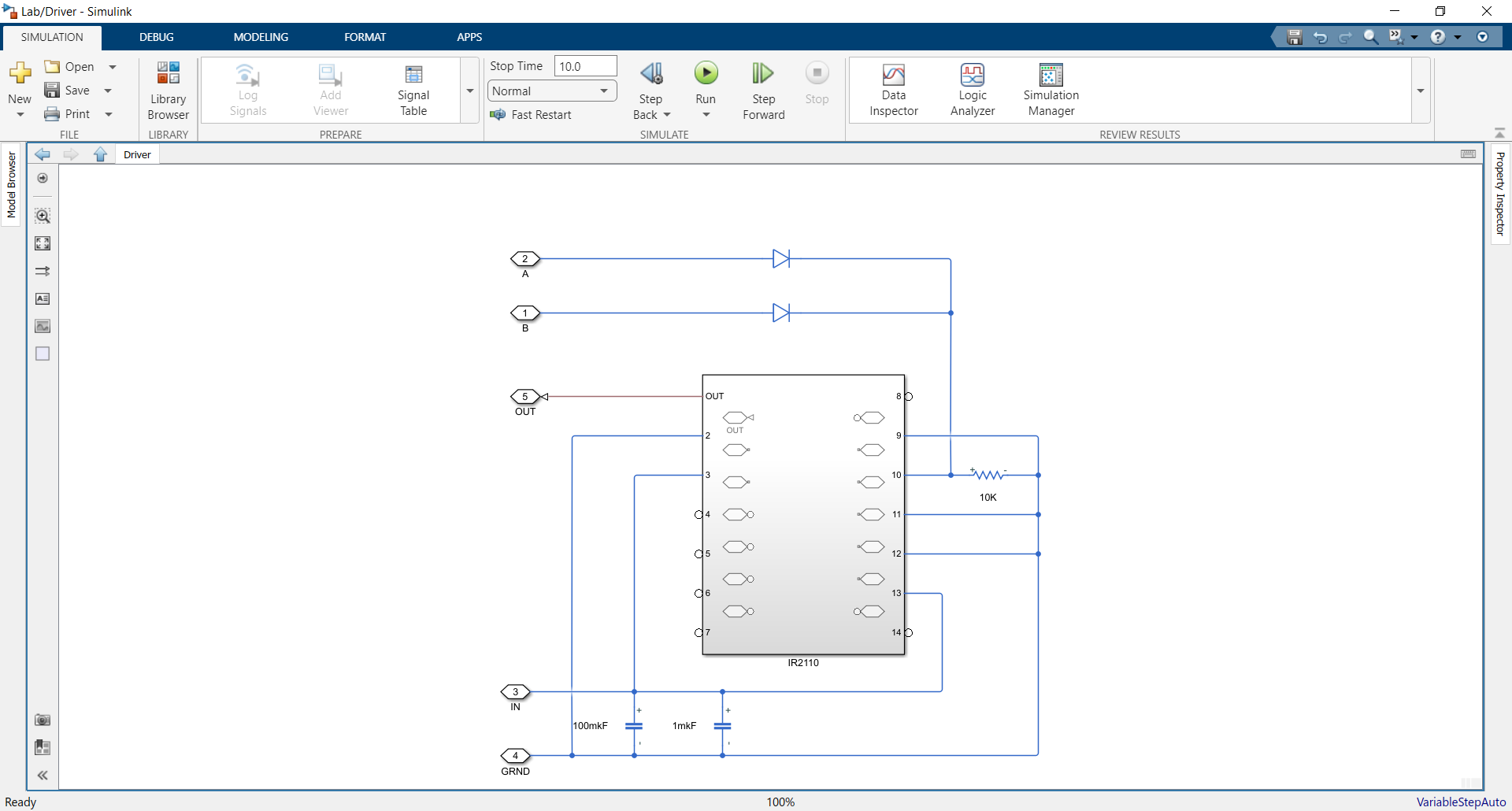
*To control R,C output of controller must be connected to*

*is power supply of controller. connects to and to filter signal.*

*so we divided it by 2 using two resistors. Our is boost result. In the resistor we expect 2.5V from and in the in the resistor 10k we expect 2.5V from after that compare it in W1, W2.*

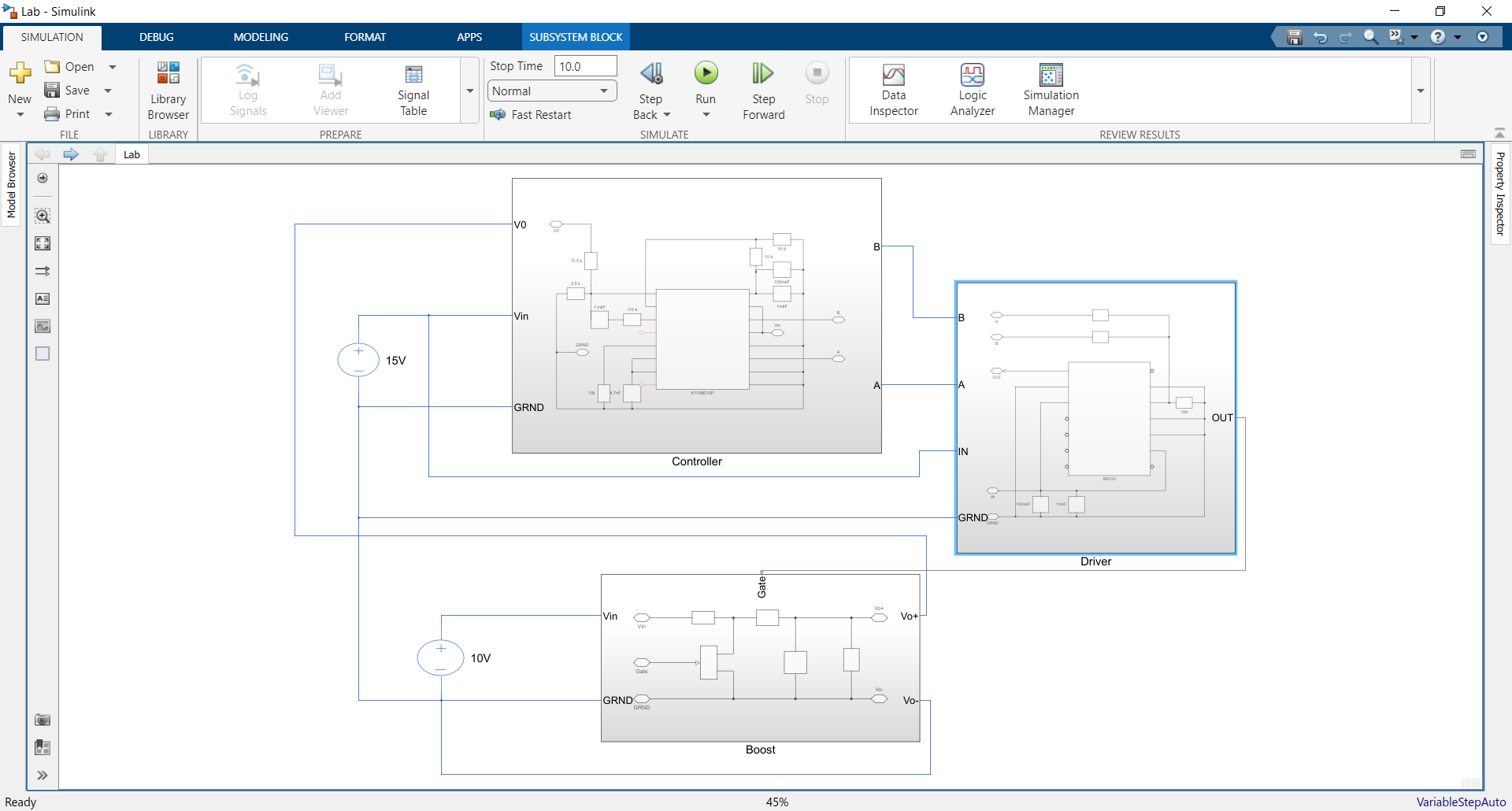
*Pi controller realized in RC circuit as a feedback of comparing.  
After that output goes to A and B (we need both because one has D max = 50% but we need 66%)*

*Driver:*

*We sum our signals in 10 pin after that get result in first pin (. (we also filter input voltage using 2 capacitors)*

*Our out signal goes to gate of the boost coverter:*

*Full circuit:*



*We need two voltage sources for Boost (high power 10V) and for control-driver system(low power 15V).  
Because we comparing we need to make our zero Voltage point common (on the picture it is*

*Results of system work:*

*PICTURES OF SCOP*

We expected but our circuit works strange, so we obtain stable boost effect only with low power load .

FROM THE PICTURE OBTAIN RIPPLE