EE2230 Power electronics

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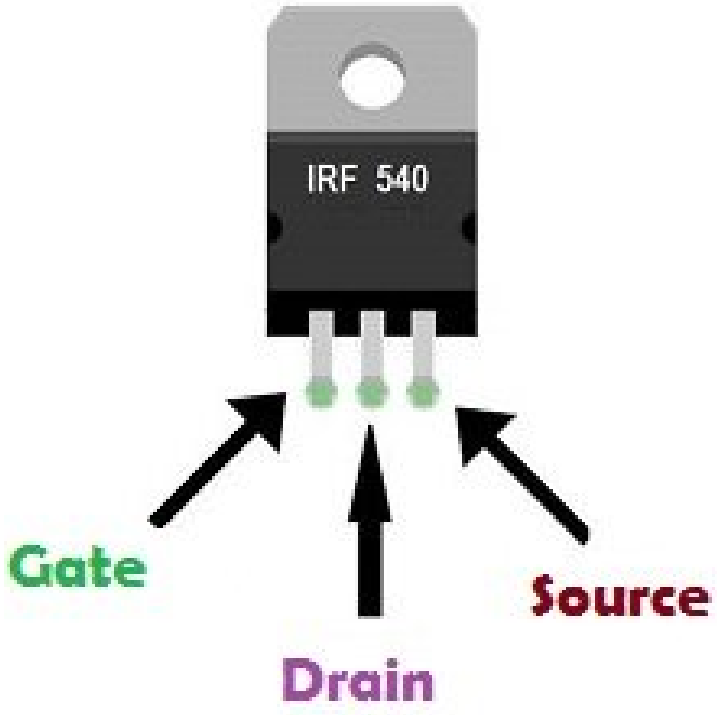
Problem statement

Problem 4.1 Observe the output of the Source pin of the n-MOS on oscilloscope and write python script to generate the same.

Solution

Explanation: Below is the pinout diagram of n-MOS(IRF 540)



Explanation contd.

We connect the source pin of n-MOS with the pin5 of TLP350(accoridng to the connections mentioned in manual).

TLP350 is a power amplifier that accepts low power input and produces high current input to the n-MOS(IRF 540)

The ouput shown on the oscilloscope is of a square wave pulse with amplitude of 10 and time period of 0.2 msec.

Figure

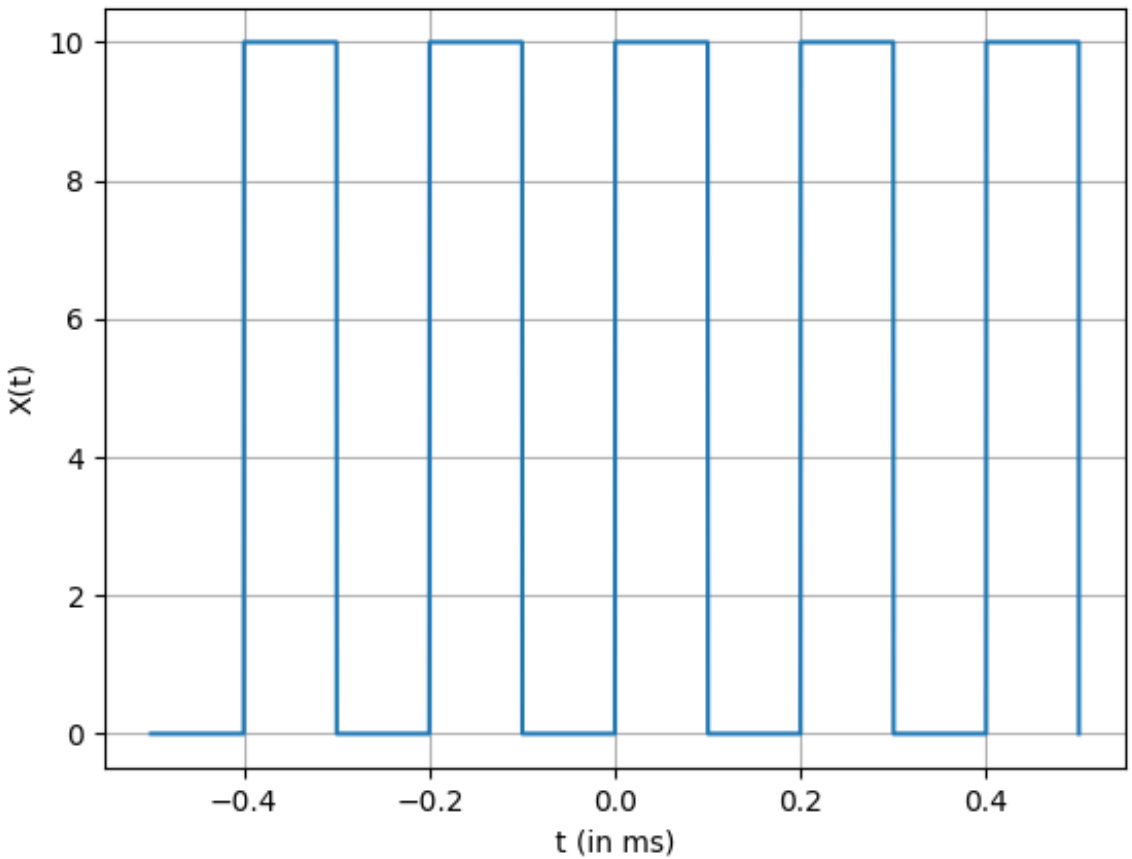


Figure: Output of the source pin

Code

https://github.com/raktimgg/Power-Electronics/blob/master/Presentation1/p1.py