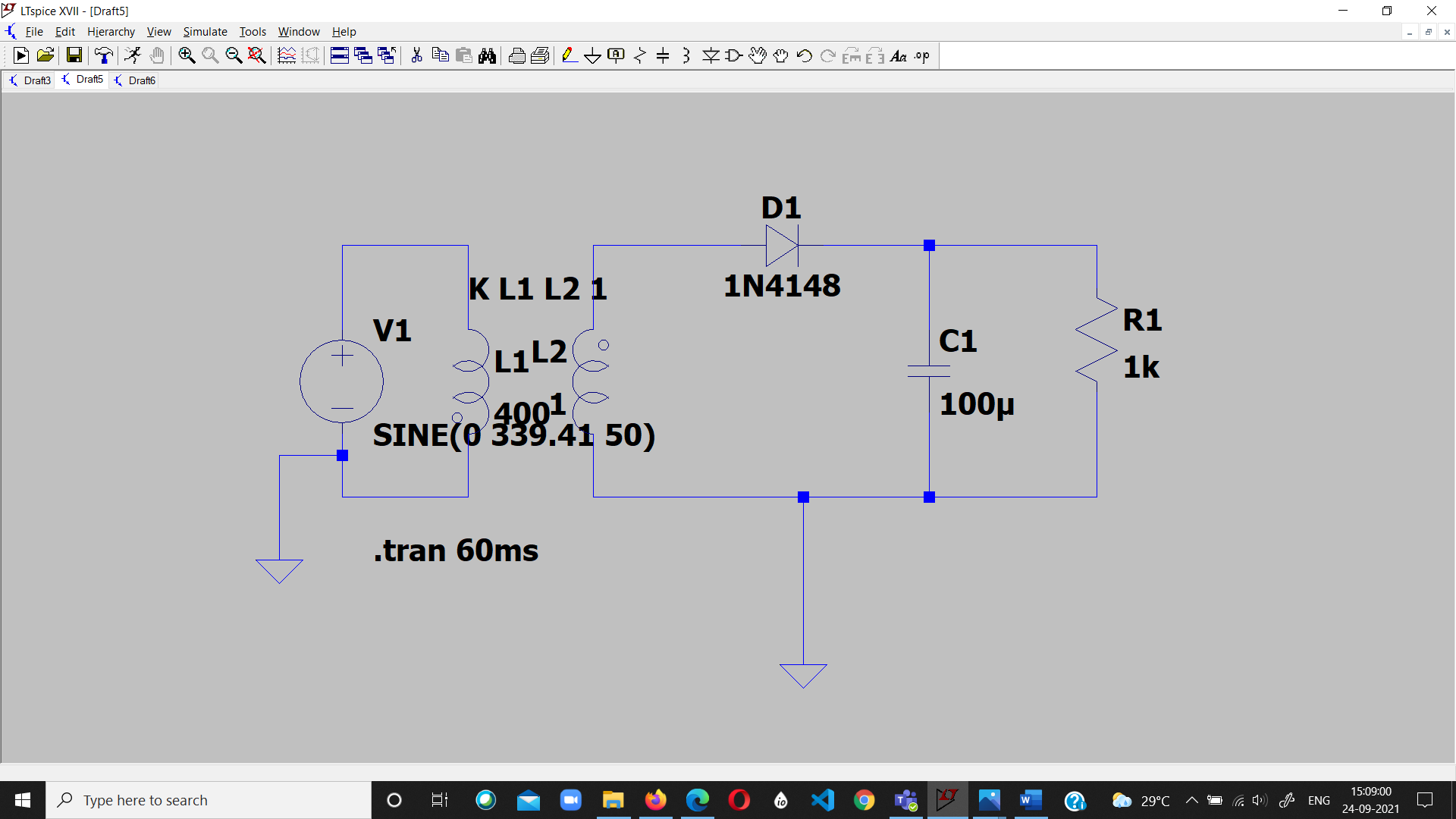
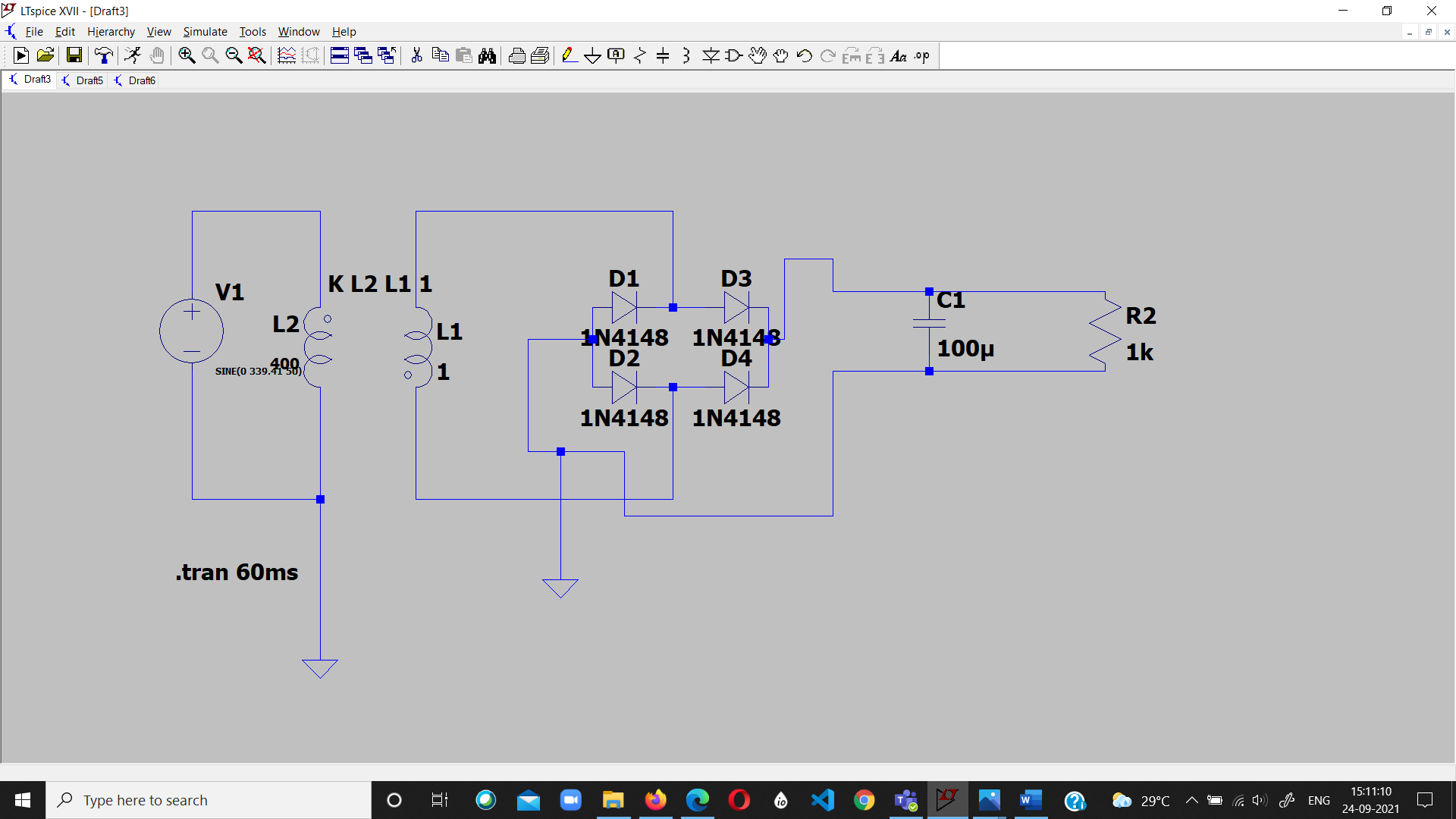
**ASSIGNMENT 3**

**20IM10009**

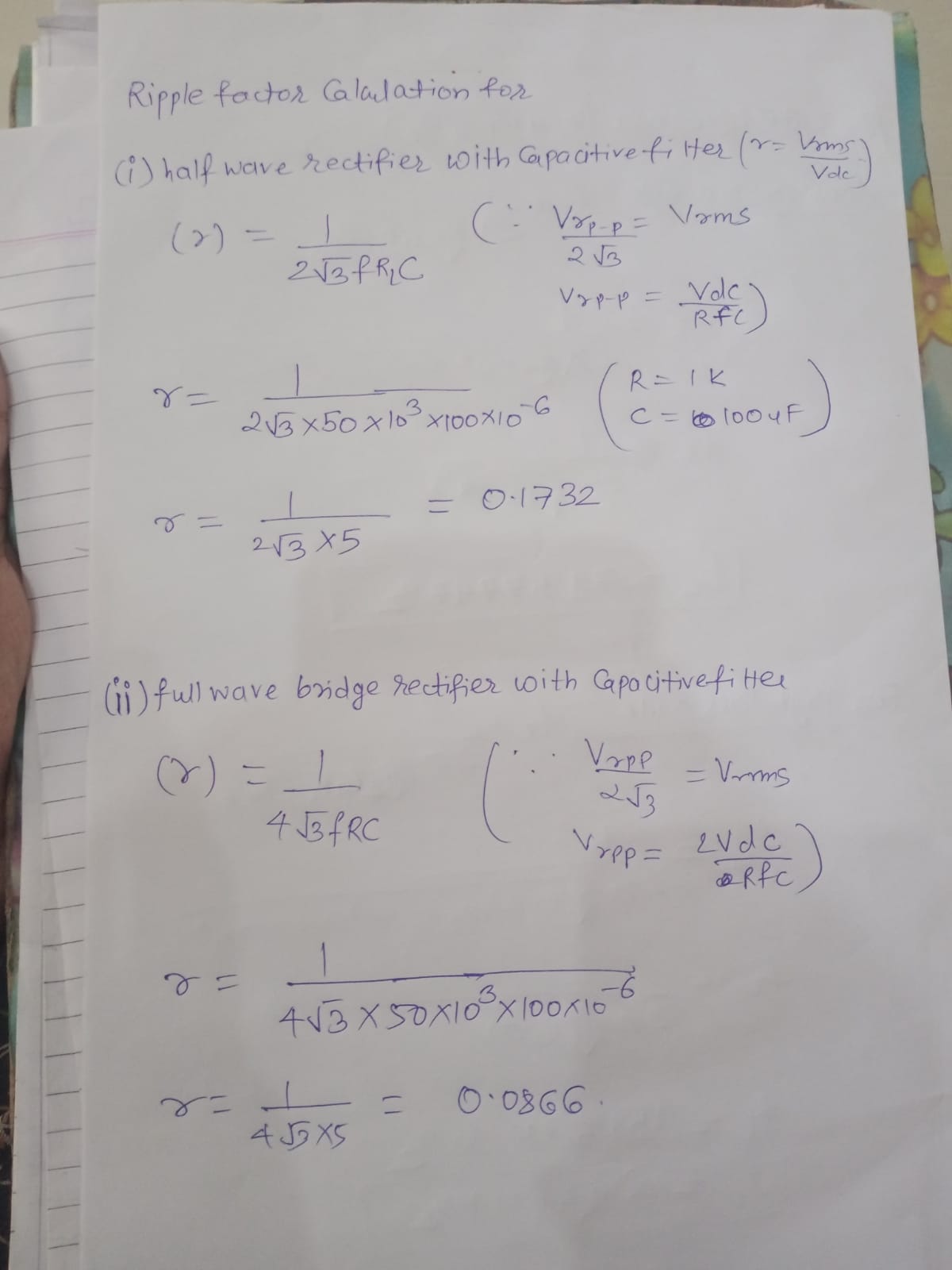
**DHUWARE CHAITANYA RAKESH**



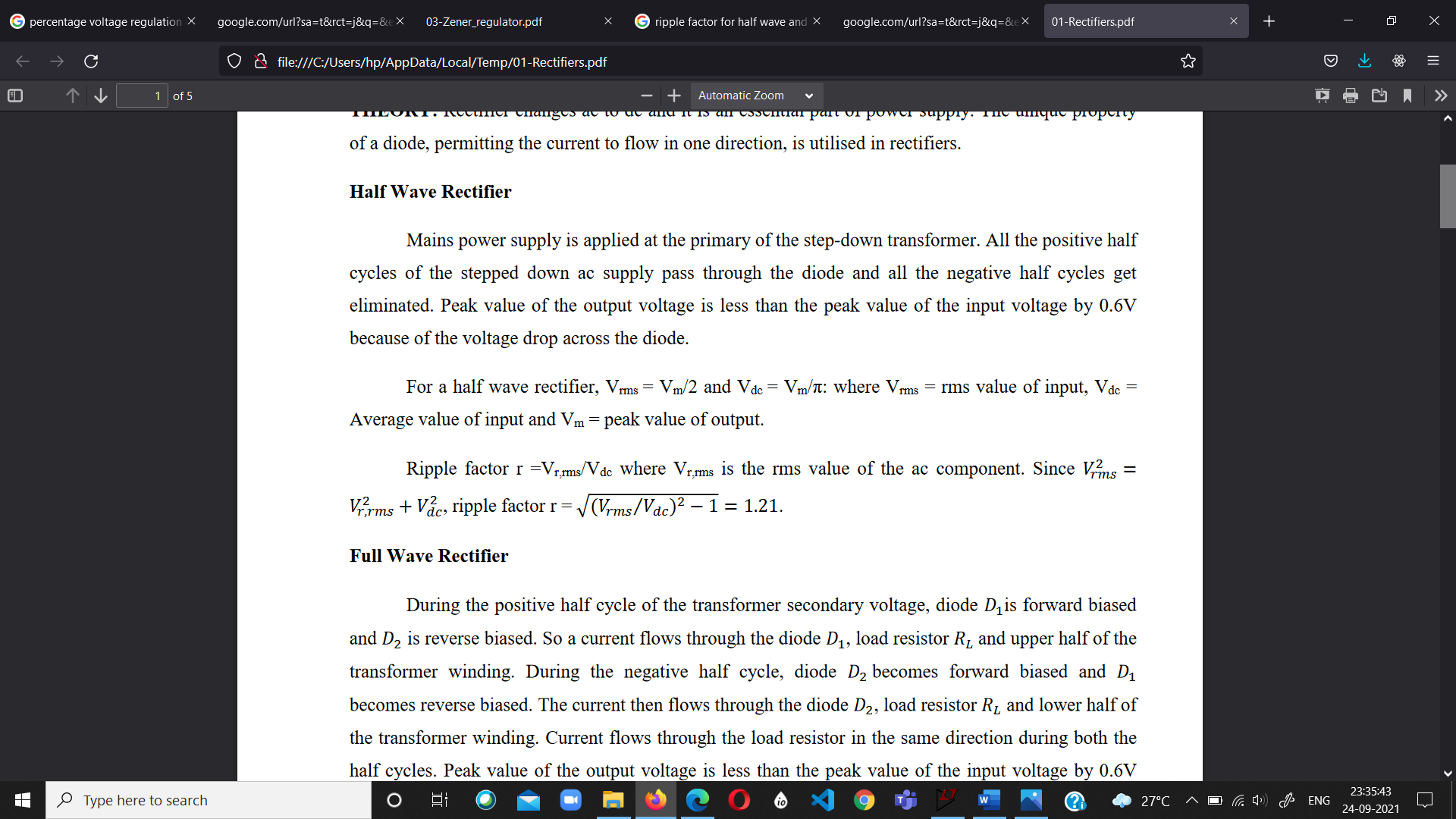
Half Wave Rectifier with Capacitive Filter



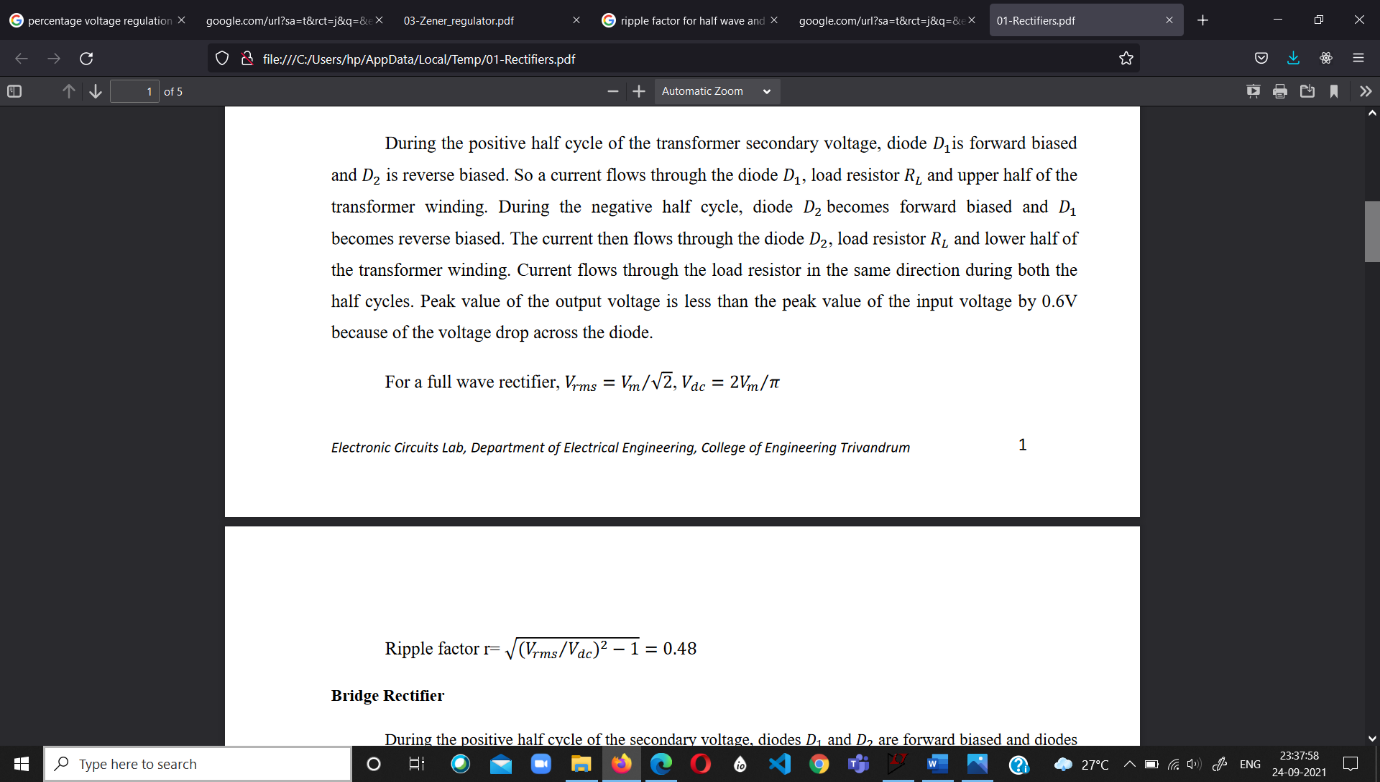
Bridge Rectifier with Capacitive Filter

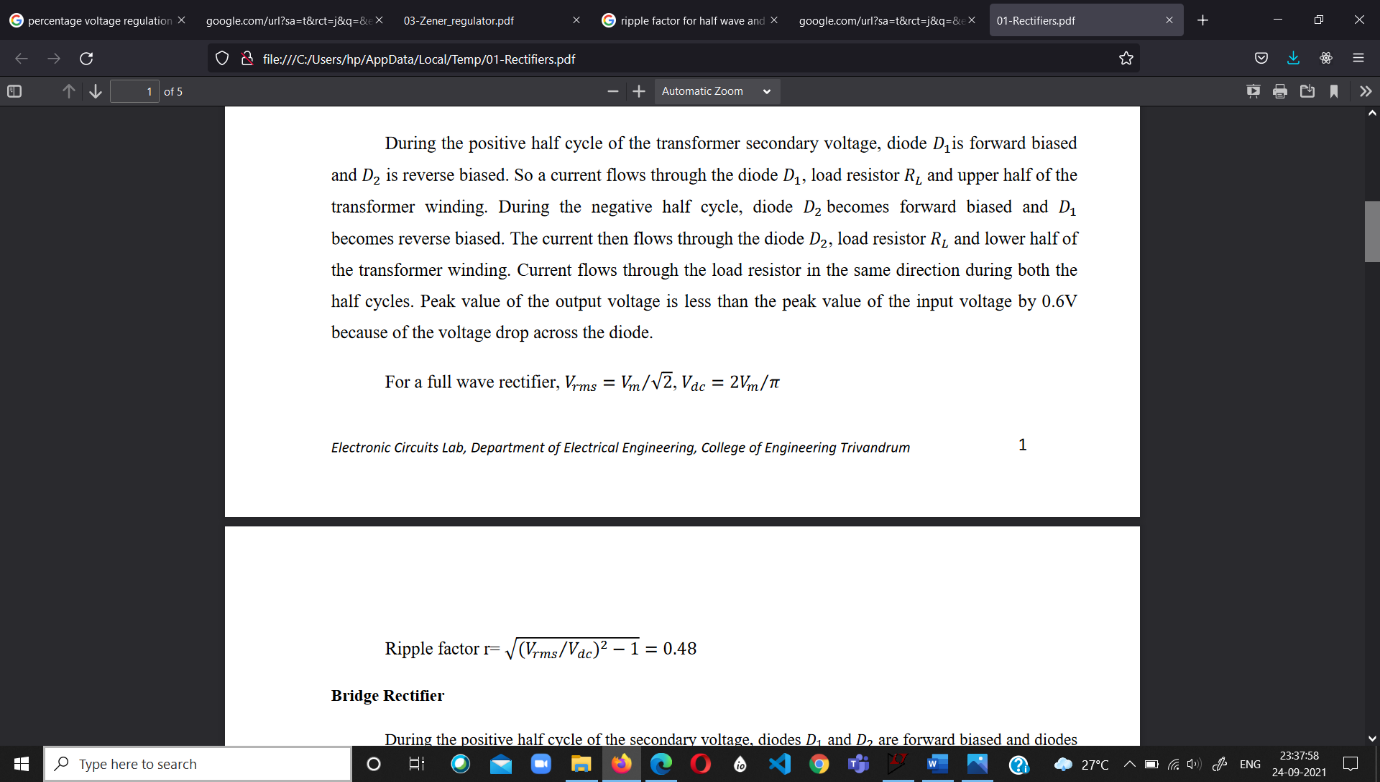


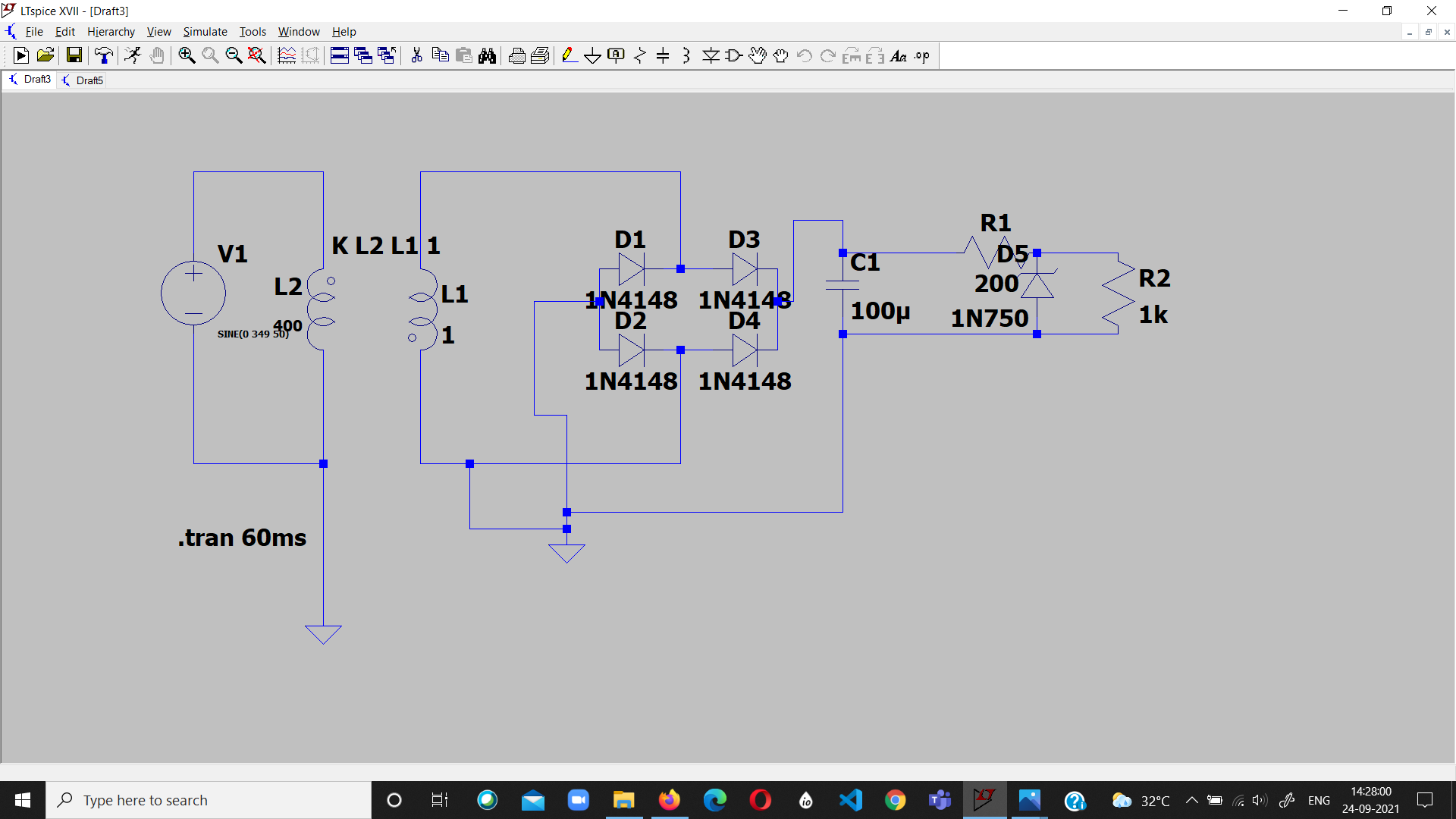
**RIPPLE FACTOR FOR HALF WAVE RECTIFIER WITHOUT CAPACITOR FILTER**



**RIPPLE FACTOR FOR FULL WAVE RECTIFIER WITHOUT CAPACITOR FILTER**





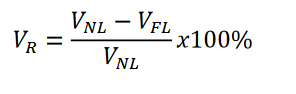


ZENER DIODE CIRCUIT

Voltage Regulation Efficiency

V(no load) = 4.876

V(load) = 4.54



Efficiency = (4.856-4.54)/4.856

= 6.5478 %