Project 2:-

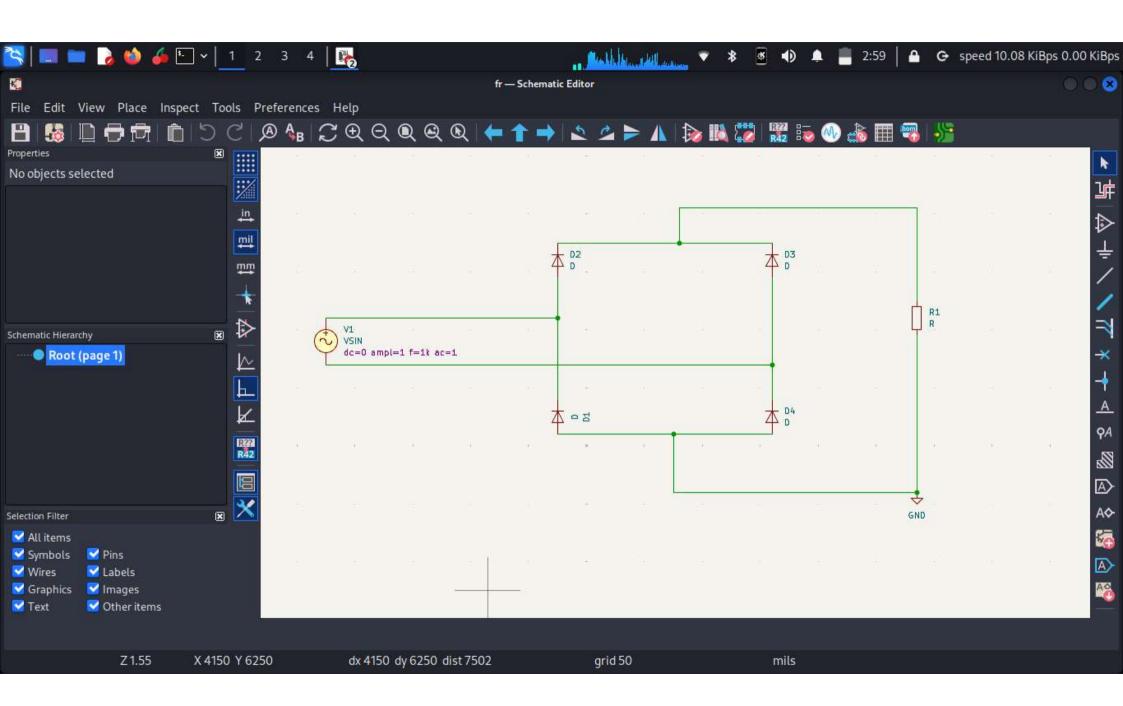
Simulate a full wave rectifier. Infer its behaviour and explain its rectification efficiency and its ripple factor in comparison to half wave rectifier.

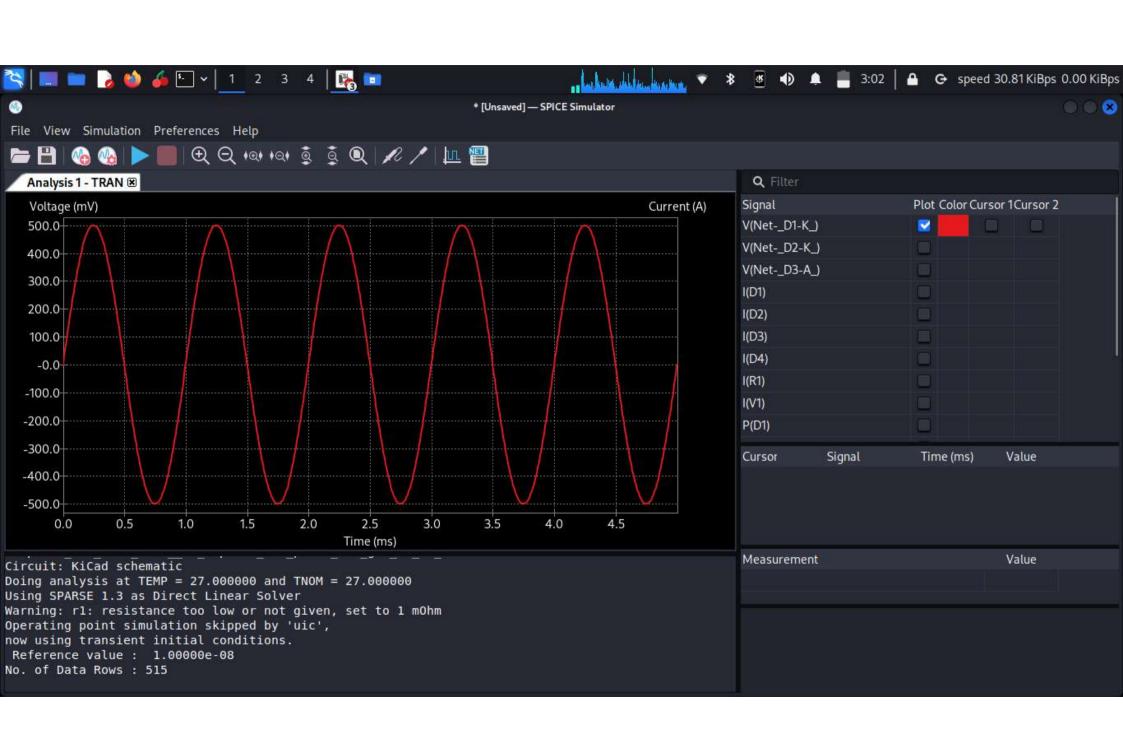
Group member name :- Ravi Prakash Yadav

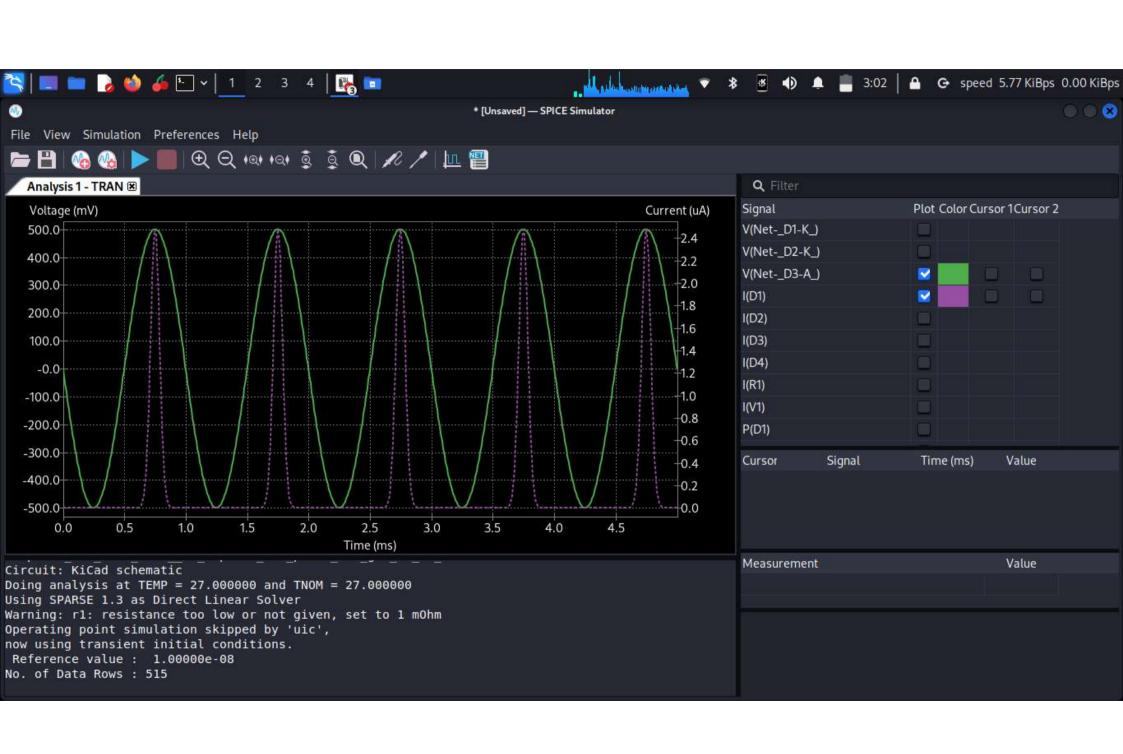
Prabal Singh

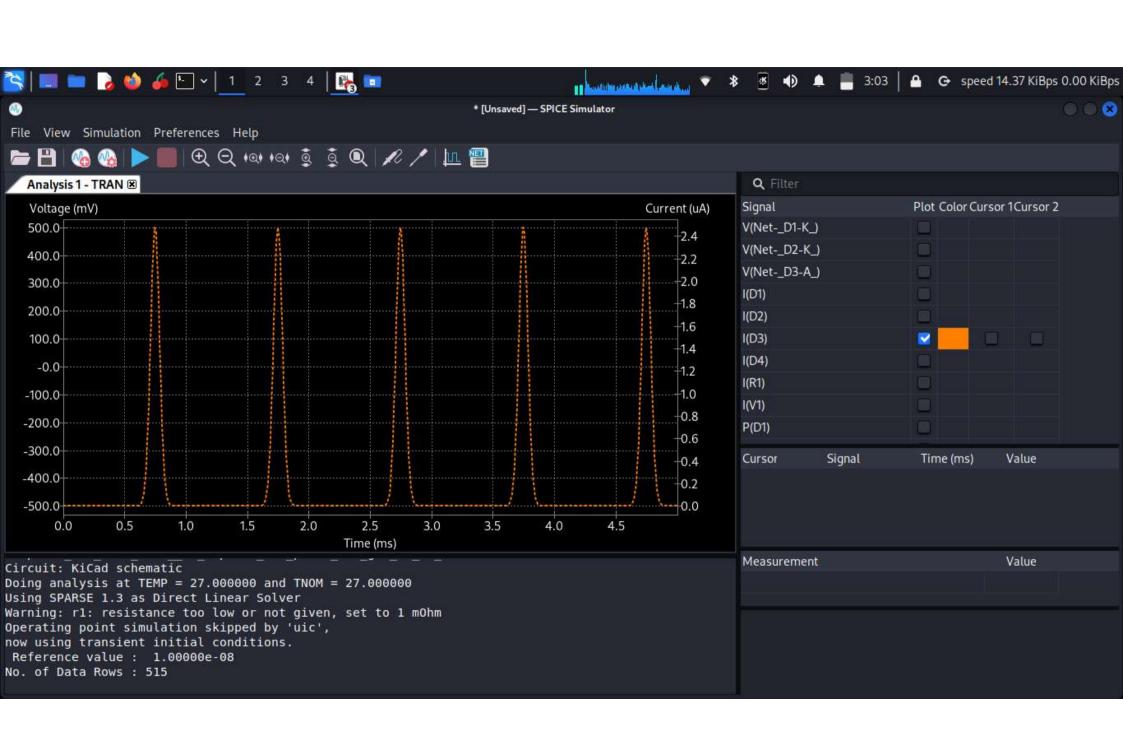
Shivam Giri

Rishav Raj

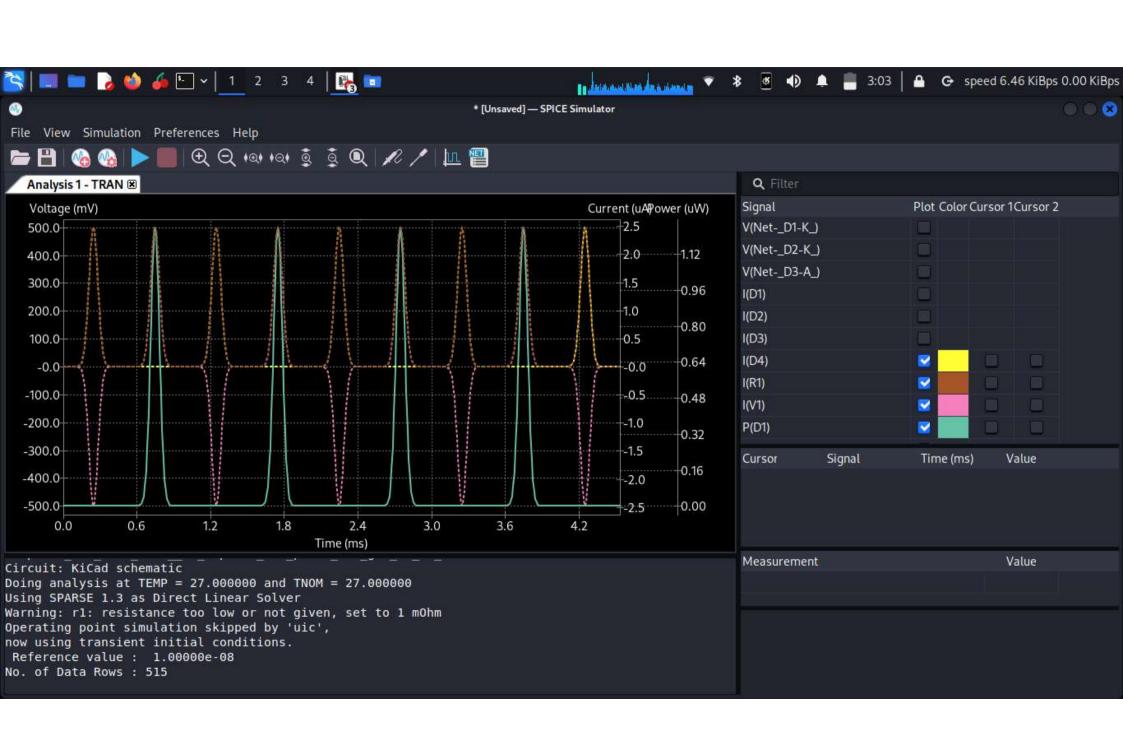


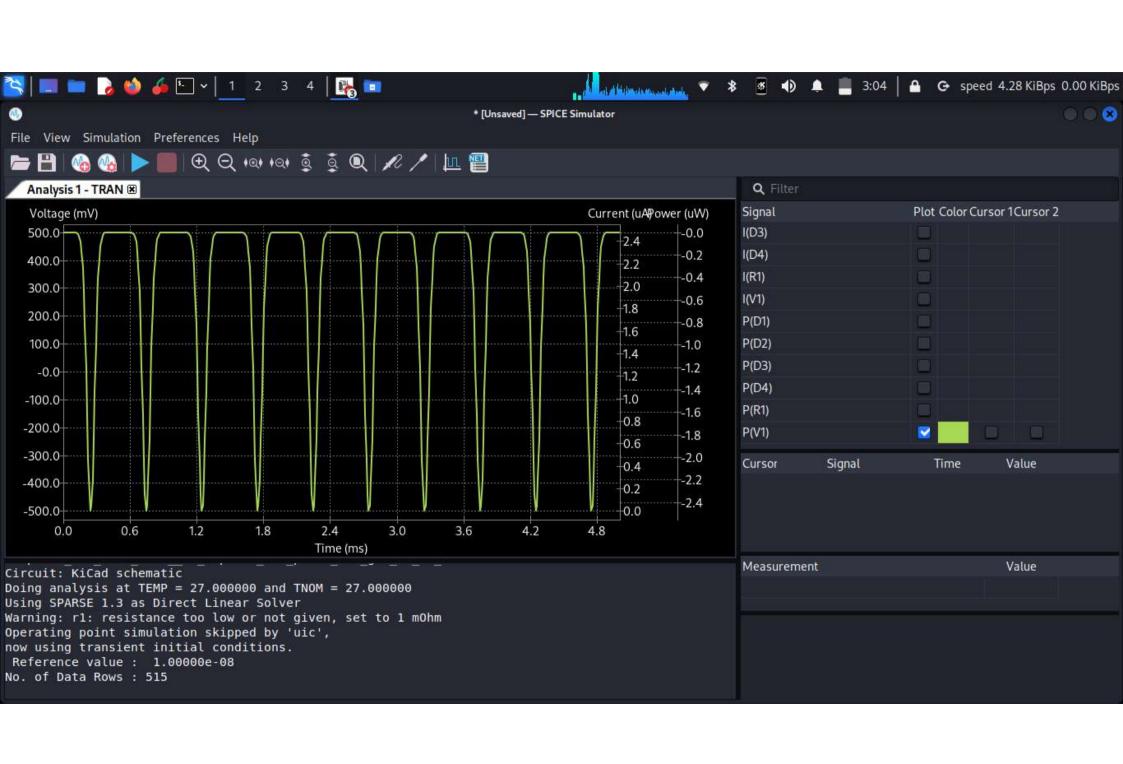


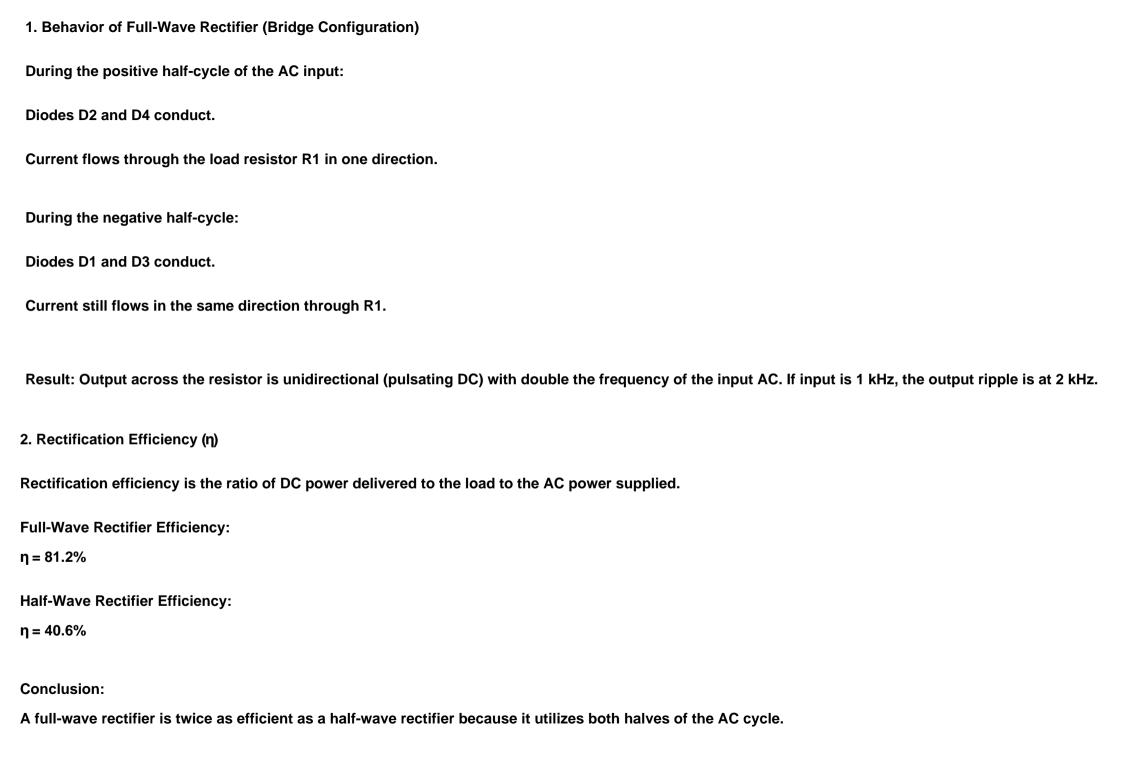












3. Ripple Factor (γ)
Ripple factor measures the amount of AC content in the output DC. Lower is better.
Ripple Factor for Full-Wave Rectifier:
$\gamma = 0.482$
Ripple Factor for Half-Wave Rectifier:
γ = 1.21
Conclusion:
The full-wave rectifier produces smoother DC output compared to a half-wave rectifier. You can reduce ripple further by adding a filter capacitor in parallel with the load.