NETWORK ANALYSIS ASSIGNMENT

DESCRIPTION:

This program reduces the users effort from doing calculations, as it helps us in finding Y parameter from Z or vice versa, finding equivalent of T network in PI network or vice versa and also to analyze RLC circuit. There are 5 operations this program can perform. They are as follows:

Network Conversion:

1. Convert PI – network → T – network.
2. Convert T – network → PI – network.

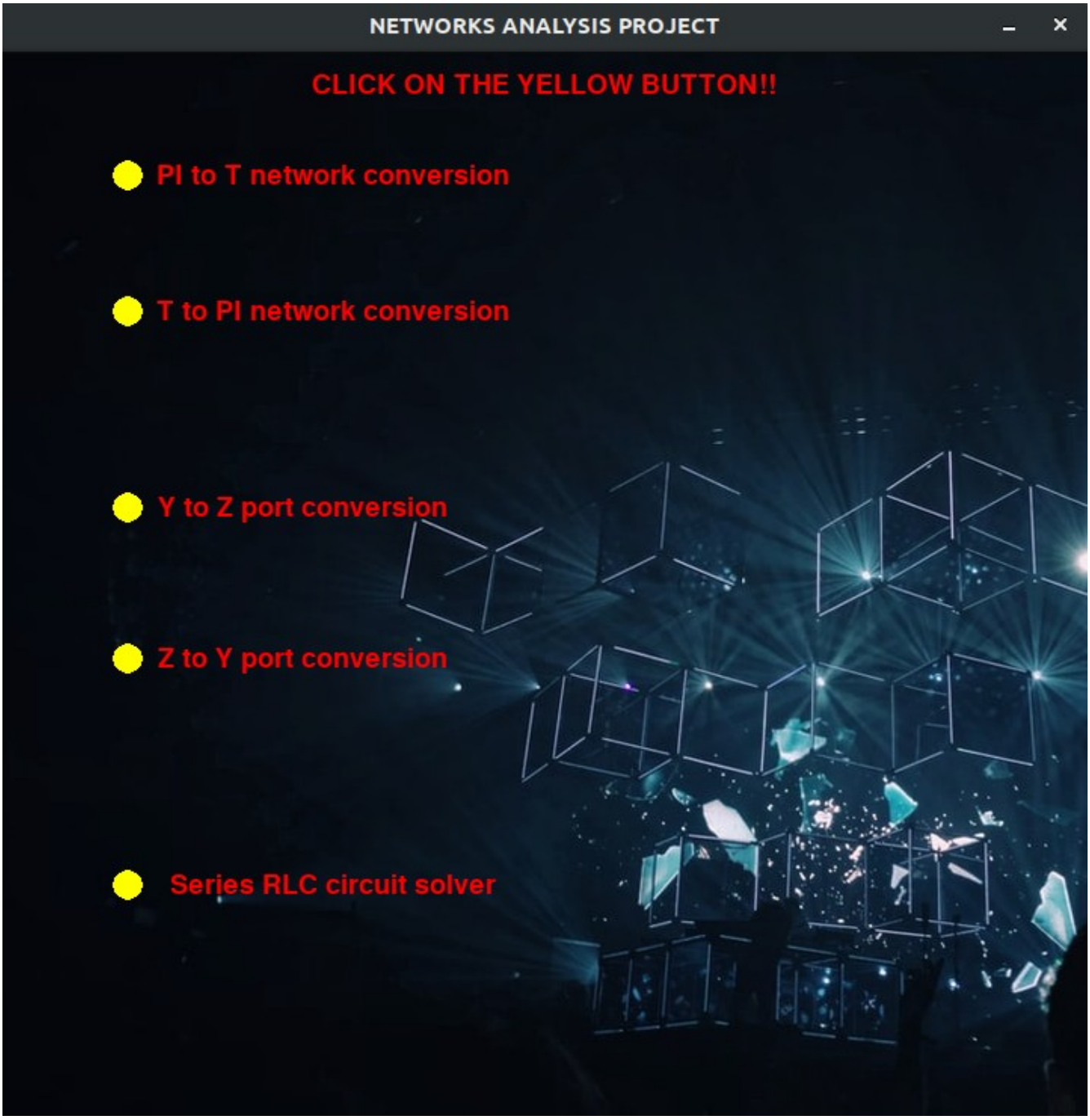
Port Conversion:

1. Convert Z parameter → Y parameter.
2. Convert Y parameter → Z parameter.

Circuit:

1. RLC Circuit Analysis.
   Given R, L, C and f it would output:
   a) Inductive Reactance.
   b) Capacitive Reactance.
   c) Impedance of the circuit.
   d) Phase angle.
   e) Resonant frequency
   f) Q factor
   g) Bandwidth
   h) Graph of Impedance vs Frequency.

PREVIEW:



Done By

M.Rhithick
108119093
ECE II Year