PRACTICAL 6

Program to find the total power transmitted through the lossless transmission line

```
//Mayank
//8562
//22025558001
// Define complex load and line impedance
ZL = 50 - %i * 75;   // Load impedance (complex)
ZO = 50;             // Characteristic impedance
Pin = 100e-3;        // Incident power in Watts
// Reflection Coefficient R = (ZO - ZL) / (ZO + ZL)
R = (ZO - ZL) / (ZO + ZL);
// Power transmitted to load: Ptr = (1 - |R|^2) * Pin
Ptr = (1 - abs(R)^2)
* Pin; //Display
results
disp("Reflection
Coefficient: ");
disp(R);
disp("Power transmitted in
mW: ");
disp(Ptr * 1000);
```

OUTPUT:

"Reflection Coefficient: "

-0.36 + 0.48i

"Power transmitted in mW: "

64.