



Lab 9: Loops

Task: Calculating Power Loss Using Loops

Objective

The objective of this task is to practice using Python loops to iterate over a list and perform calculations on each element. Students will calculate the square of current readings to determine power loss.

Task Description

The goal of this task is to store current readings in a list and use a loop to calculate the square of each value, which is useful in power loss calculations.

Procedure

Created a list of current readings.

Used a loop to iterate through each value in the list.

Calculated the square of each current reading using the formula $I^2 R$.

Printed the squared values for each reading

```
In [1]: readings=[10,20,30,11,56,2]
        for r in readings:
            squ_readings=r*r
            print(squ_readings)
```

```
100
400
900
121
3136
4
```