In this Assignment i wrote a simple python code according to assignment instractions in this code i am import a csv file and read that file and then apply for loop and add the readed values in consumption as a list and values in float and appling some formulas for total,average,maximum and minimum. and also kwh list with loop for all values and at last print all of them.

In [8]:
```python
import csv

consumption = []

with open("Assignment 1.csv", "r") as file:
    reader = csv.reader(file)
    next(reader)

    for row in reader:
        consumption.append(float(row[1]))

total_consumption = sum(consumption)
average_consumption = total_consumption / len(consumption)
maximum_consumption = max(consumption)
minimum_consumption = min(consumption)

kwh_list = [w / 1000 for w in consumption]

print("Results:")
print(f"Total Consumption (W): {total_consumption}")
print(f"Average Consumption (W): {average_consumption}")
print(f"Maximum Consumption (W): {maximum_consumption}")
print(f"Minimum Consumption (W): {minimum_consumption}")
print("Hourly Consumption in kWh:")
print(kwh_list)
```

```
Results:
Total Consumption (W): 5300.0
Average Consumption (W): 530.0
Maximum Consumption (W): 800.0
Minimum Consumption (W): 200.0
Hourly Consumption in kWh:
[0.2, 0.3, 0.5, 0.7, 0.6, 0.4, 0.8, 0.7, 0.6, 0.5]
```