

Problem 1:

**Required Packages:**

Python 3.x

Numpy

Matplotlib

Cvxpy

**Installation:**

You can install the required packages using pip. For example:

```
python3 -m pip install numpy matplotlib cvxpy
```

**Running The Code:**

```
Python3 problem1.py
```

Problem 2:

**Required Packages:**

Python 3.x

pandas

numpy

matplotlib

gurobipy

**Installation:**

You can install the required packages using pip. For example:

```
python3 -m pip install gurobipy pandas numpy matplotlib
```

**Running The Code:**

```
Python3 problem2.py
```