

# Weather Data Web Scraping Assignment

## 1. Website Selection

- **Chosen Website:** OpenWeatherMap Current Weather Data
- **URL:** <https://openweathermap.org/city/>
- **Scraping Legality:**
  - Public API available
  - Free tier allows data access
  - Complies with terms of service
  - Provides weather data for educational purposes

### Data to be Scraped

- City Name
- Current Temperature
- Weather Description
- Humidity
- Wind Speed
- Atmospheric Pressure

## 2. Environment Setup

### Libraries Required

- requests: HTTP requests
- scrapy: Web scraping framework
- pandas: Data manipulation
- beautifulsoup4: HTML parsing (supplementary)

### Installation Commands

```
pip install scrapy requests pandas beautifulsoup4
```

```
pip install -r requirements.txt
```

## **Execution**

```
python weather_scraper.py
```

## **Output**

- Generates hande\_gursoy\_weather\_data.csv
- Displays scraped weather information