I created a web application that provides temperature information from a city using a Python Flask application.

I already had installed the Flask application:

```
C:\Users\vlads>pip install Flask

Requirement already satisfied: Flask in c:\python311\lib\site-packages (2.3.2)

Requirement already satisfied: Werkzeug>=2.3.3 in c:\python311\lib\site-packages (from Flask) (2.3.6)

Requirement already satisfied: Jinja2>=3.1.2 in c:\python311\lib\site-packages (from Flask) (3.1.2)

Requirement already satisfied: itsdangerous>=2.1.2 in c:\python311\lib\site-packages (from Flask) (2.1.2)

Requirement already satisfied: click>=8.1.3 in c:\python311\lib\site-packages (from Flask) (8.1.6)

Requirement already satisfied: blinker>=1.6.2 in c:\python311\lib\site-packages (from Flask) (1.6.2)

Requirement already satisfied: colorama in c:\python311\lib\site-packages (from click>=8.1.3->Flask) (0.4.6)

Requirement already satisfied: MarkupSafe>=2.0 in c:\python311\lib\site-packages (from Jinja2>=3.1.2->Flask) (2.1.3)
```

I created a file named app.py and added the following code:

```
C: > Users > vlads > 💠 app.py
      from flask import Flask, request, jsonify
      import random
      app = Flask(__name__)
      cities = ["New York", "Los Angeles", "Chicago", "Miami", "San Francisco", "Seattle"]
      temperature_range = (-10, 40) # Temperature range in Celsius
      @app.route('/get_temperature', methods=['GET'])
      def get_temperature():
          random_city = random.choice(cities)
          random_temperature = random.uniform(*temperature_range)
          response = {
              'city': random_city,
              'temperature': round(random_temperature, 2) # Round to two decimal places
          return jsonify(response)
      if __name__ == '__main__':
          app.run(host='0.0.0.0', port=80)
```

We have a list of cities and a temperature range defined. The get_temperature function now selects a random city from the list and generates a random temperature within the specified range. The temperature is rounded to two decimal places for cleaner presentation.

To make my Flask app accessible over the internet, I used a tool named Ngrok. This will provide me with a public URL that tunnels to my local Flask app. I wanted to run the Flask app in port 80 so I inserted the command: ngrok.exe http 80

I ran the python app.py command and now I receive the results on the "http://127.0.0.1:80/get temperature" address.

```
C:\Users\vlads>python app.py
      * Serving Flask app 'app'
       Debug mode: off
     MARNING: This is a development server. Do not use it in a production deploym
     * Running on all addresses (0.0.0.0)
      * Running on http://127.0.0.1:80
     * Running on http://10.0.7.69:80
     Press CTRL+C to quit
    127.0.0.1 - - [10/Aug/2023 15:14:45] "GET /get_temperature HTTP/1.1" 200 -
     127.0.0.1 - - [10/Aug/2023 15:14:45]
                                             "GET /favicon.ico HTTP/1.1" 404 -
    127.0.0.1 - - [10/Aug/2023 15:14:49] "GET /get_temperature HTTP/1.1" 200 - 127.0.0.1 - - [10/Aug/2023 15:14:50] "GET /get_temperature HTTP/1.1" 200 -
     127.0.0.1 - - [10/Aug/2023 15:14:52]
                                             "GET /get_temperature HTTP/1.1" 200 -
     127.0.0.1 - - [10/Aug/2023 15:14:53]
                                             "GET /get_temperature HTTP/1.1" 200 -
                                             "GET /get_temperature HTTP/1.1" 200 -
    127.0.0.1 - - [10/Aug/2023 15:14:53]
                                             "GET /get_temperature HTTP/1.1" 200 -
    127.0.0.1 - - [10/Aug/2023 15:14:54]
                                             "GET /get_temperature HTTP/1.1" 200 -
    127.0.0.1 - - [10/Aug/2023 15:14:54]
                                             "GET /get_temperature HTTP/1.1" 200 -
    127.0.0.1 - -
                    [10/Aug/2023 15:14:55]
    127.0.0.1 - - [10/Aug/2023 15:15:25] "GET /get_temperature HTTP/1.1" 200 -
                    [10/Aug/2023 15:15:26] "GET /get temperature HTTP/1.1"
    127.0.0.1 - -
\leftarrow \rightarrow c
              (i) 127.0.0.1/get_temperature
```

{"city": "Chicago", "temperature": 31.35}