



```
1 #Purpose: Build weather database from NOAA data
2 #Name: Teyvone Wells
3 #Date: 11/11/2022
4 # See https://pypi.org/project/noaa-sdk/ for
5
6 from noaa_sdk import noaa
7 import sqlite3
8 import datetime
9
10 # parameters for retrieving NOAA weather data
11 zipCode = "22192" # change to your postal code
12 country = "US"
13 #date-time format is yyyy-mm-ddThh:mm:ssZ, time
14 #gets the most recent 14 days of data
15 today = datetime.datetime.now()
16 past = today - datetime.timedelta(days=14)
17 startDate = past.strftime("%Y-%m-%dT00:00:00Z")
18 endDate = today.strftime("%Y-%m-%dT23:59:59Z")
19
20 #create connection - this creates database if
21 print("Preparing database...")
22 dbFile = "weather.db"
23 conn = sqlite3.connect(dbFile)
24 #create cursor to execute SQL commands
25 cur = conn.cursor()
26
27 #drop previous version of table if any so we s
28 dropTableCmd = "DROP TABLE IF EXISTS observati
29 cur.execute(dropTableCmd)
30
31 #create new table to store observations
32 createTableCmd = """ CREATE TABLE IF NOT EXIST
33                     timestamp TEXT NOT NULL
34                     windSpeed REAL,
35                     temperature REAL,
36                     relativeHumidity REAL,
37                     windDirection INTEGER,
```

BuildWeatherDb.py Code

- Screenshot of code in Spyder