Code of rbi with pH

|  |  |
| --- | --- |
| DATE | 25 NOVEMBER 2022 |
| Student Name | PNT2022MID11410 |
| PROJECT Name | REAL TIME RIVER WATER QUALITY MONITORING AND CONTROL SYSTEM |

**CODE :**

**import csv**

**import datetime as dt**

**import matplotlib.pyplot as plt**

**LOG\_FILENAME = "ph\_readings.csv"**

**def main():**

**"""Plot readings over time, from a CSV log file."""**

**timestamps = []**

**readings = []**

**with open(LOG\_FILENAME) as f:**

**reader = csv.reader(f)**

**for (timestamp, ph) in reader:**

**# Parse the timestamp into a `datetime.datetime`.**

**timestamps.append(dt.datetime.fromisoformat(timestamp))**

**readings.append(float(ph))**

**fig, ax = plt.subplots()**

**ax.plot(timestamps, readings) # Use `ax.scatter(...)` for a scatterplot.**

**ax.set\_title("pH over time")**

**ax.set\_xlabel('Date and time of reading')**

**ax.set\_ylabel('pH')**

**ax.set\_ylim(6, 8)**

**plt.show()**