

SPRINT-II

PROJECT DEVELOPMENT PHASE

DATE	4 NOVEMBER 2022
TEAM ID	PNT2022TMID49552
PROJECT NAME	REAL TIME RIVER WATER QUALITY MONITORING AND CONTROL SYSTEM

PYTHON COADING FOR DETECT THE PH LEVEL:

```
import CSV
import datetime as dt
import matplotlib.pyplot as plt
LOG_FILENAME="ph_reading.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:

            timestamps.append(dt.datetime.fromisoformat(timestamp))
            readings.append(float(ph))
    fig,ax=plt.subplots()
    ax.plot(timestamps,readings)
    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()
```