

PROJECT SPRINT 1

Date	11 – 11 - 2022
Team ID	PNT2022TMID03180
Project Name	Real-Time River Water Quality Monitoring and Control System
Maximum Mark	

DATA GATHERED:

- Average oxygen range in water: 6.5 to 8 mg/L
- Safe pH range for a pond or a lake is 6.0 to 8.0
- Pure water has 7ph value Less than 7ph has acidic more than 7ph has alkaline
- For drinking purposes, it should be 6.5 – 8.5 pH
- Turbidity safe water <5, Unsafe water >5

MODIFIED CODE: (snippets alone)

```
pHList=[]
for i in range(0,10):
    pHList.append(round(float(random.uniform(6.00,8.00)),2))

for i in range(0,2):
    pHList.append(round(float(random.uniform(5.00,6.00)),2))

for i in range(0,2):
    pHList.append(round(float(random.uniform(8.00,9.00)),2))

turbidityList = []
for i in range(0,10):
    turbidityList.append(round(float(random.uniform(0.2,4.2)),2))

for i in range(0,2):
    turbidityList.append(round(float(random.uniform(4.7,7)),2))
```