

## PROJECT SPRINT 1

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| Date         | 11 – 11 - 2022  |
| Team ID      | PNT2022TMID03218  |
| 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))
```