## SPRINT 3

**Team ID: PNT2022TMID21316** 

**Project Name: Real-Time River Water Quality Monitoring and Control** 

**System** 

#importing Random function to generate the value

Import random as rand

for i in range(5):

```
print("Test case:",i+1)
    print("Welcome to Real-Time River Water Quality
Monitoring and Control System")
    temperature = int(rand.randint(-40,125))
    pH = int(rand.randint(0,14))
    D0 = int(rand.randint(0,100))
    TSS = int(rand.randint(0,3700))
    Manganese = int(rand.randint(0,1000))
    Copper = int(rand.randint(0,2000))
    ammonia Nitrate = int(rand.randint(0,100))
    Hardness = int(rand.randint(0,1000))
    Zinc = int(rand.randint(0,100))
    Conductivity = f"{float(rand.uniform(0.001,2000)):.2f}"
    Chloride = int(rand.randint(0,200))
    Sulphate = int(rand.randint(0,1000))
    #These variables store value of ramdom data to be sharedto
the cloud
    #printing the values
    print(
        "Temperature:", temperature,
        "\npH:", pH,
        "\nD0:", D0,
        "\nTSS:", TSS,
        "\nManganese:", Manganese,
        "\nCopper:", Copper,
        "\nAmmonia & Nitrate:",ammonia Nitrate,
        "\nHardness:",Hardness,
        "\nZinc:", Zinc,
        "\nConductivity:", Conductivity,
        "\nChloride:", Chloride,
        "\nSulphate:", Sulphate, "\n")
```

Test case: 1 Welcome to Real-Time River Water Quality Monitoring and Control System Temperature: 80 pH: 6 DO: 5 TSS: 2881 Manganese: 499 Copper: 1057 Ammonia & Nitrate: 84 Hardness: 253 Zinc: 92 Conductivity: 434.60 Chloride: 162 De Sulnhate: 987 Test case: 2 Welcome to Real-Time River Water Quality Monitoring and Control System Temperature: -3 pH: 13 DO: 38 TSS: 620 Manganese: 578 Copper: 1250 Ammonia & Nitrate: 95 Hardness: 380 Zinc: 81 Conductivity: 812.55

Conductivity: 8 Chloride: 0 Sulphate: 225

Test case: 3
Welcome to Real-Time River Water Qual
Temperature: 21
pH: 7
DO: 53
TSS: 3023
Manganese: 131
Copper: 1797
Ammonia & Nitrate: 52
Hardness: 95
Zinc: 29
Conductivity: 1194.98
Chloride: 200
Sulphate: 16

Test case: 4
Welcome to Real-Time River Water Qua.
Temperature: 118
pH: 2
DO: 9
TSS: 2330
Manganese: 699
Copper: 461
Ammonia & Nitrate: 44
Hardness: 431
Zinc: 96
Conductivity: 1892.43
Chloride: 128
Sulphate: 900

Test case: 5
Welcome to Real-Time River\_Water Qual
Temperature: -9
pH: 0
DO: 89
TSS: 3694
Manganese: 482
Copper: 976
Ammonia & Nitrate: 85
Hardness: 774
Zinc: 12
Conductivity: 1690.35
Chloride: 120
Sulphate: 260