SPRINT-3

TEAM ID	PNT2022TMID45388
PROJECT TITLE	REAL-TIME RIVER WATER QUALITY MONITORING AND CONTROL SYSTEM
DATE	17 NOVEMBER 2022

PYTHON CODE:

```
#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))
    DO = 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 shared to the cloud
    #printing the values
    print(
        "Temperature:", temperature,
        "\npH:", pH,
```

```
"\nDO:", DO,

"\nTSS:", TSS,

"\nManganese:", Manganese,

"\nCopper:", Copper,

"\nAmmonia & Nitrate:",ammonia_Nitrate,

"\nHardness:",Hardness,

"\nZinc:", Zinc,

"\nConductivity:", Conductivity,

"\nChloride:", Chloride,

"\nSulphate:", Sulphate, "\n"
)
```

PYTHON OUTPUT:





