SPRINT 3

PYTHON CODE

TEAM ID	PNT2022TMID54363
PROJECT TITLE	Real-Time River Water Quality Monitoring and Control System
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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))
```

```python
    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"
)
```