SPRINT 3

PYTHON CODE

TEAM ID	PNT2022TMID44500
PROJECT TITLE	Real-Time River Water Quality Monitoring and Controlling System
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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))
```

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    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"

    )
```