

SPRINT-3

PYTHON CODE

TEAM ID	PNT2022TMID24241
PROJECT TITLE	Real-Time River Water Quality Monitoring and Control System
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#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"
```

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