SPRINT 3

Team ID	PNT2022TMID19330
Project Name	Real-Time River Water Quality Monitoring
	and Control System

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"
```

OUTPUT

