SPRINT 3

PYTHON CODE

TEAM ID	PNT2022TMID06042
PROJECT TITLE	Real-Time River Water Quality
	Monitoring and Controlling
	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))
                                                               = Hq
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"
)
```

SPRINT 3

PYTHON CODE

TEAMID	PNT2022TMID19880
PROJECT TITLE	Real-Time River Water Quality Monitoring and Controlling system
DATE	Nov 2022

OUTPUT





