## **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**

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| Time River Water Quality oring and Controlling system |
|   |

# **OUTPUT**





