**SPRINT 3**

**PYTHON CODE**

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| 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))

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"

)