SPRINT 3

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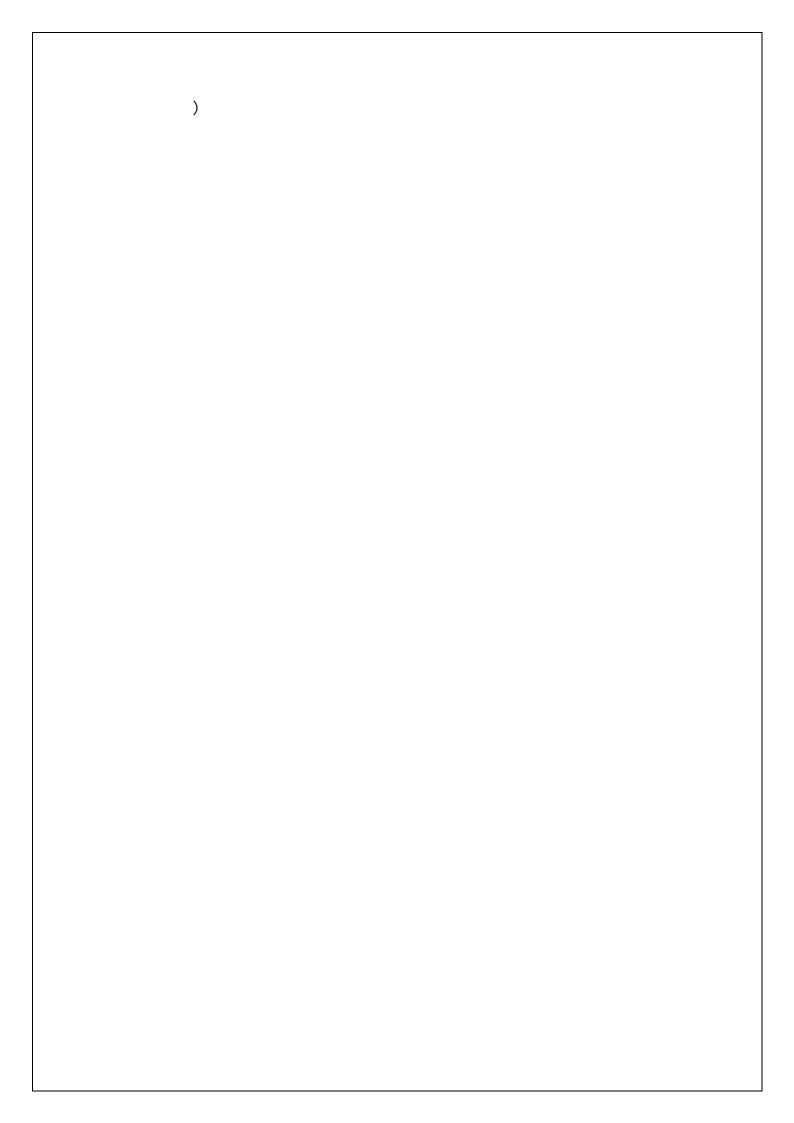
Project Name: Real-Time River Water Quality Monitoring and Control

System

```
#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"



Test case: 1 Welcome to Real-Time River Water Quality Monitoring and Control System Temperature: 80 pH: 6 DO: 5 TSS: 2881 Manganese: 499 Copper: 1057 Ammonia & Nitrate: 84 Hardness: 253 Zinc: 92 Conductivity: 434.60 Chloride: 162 2 Sulphate: 987 Test case: 2 Welcome to Real-Time River Water Quality Monitoring and Control System Temperature: -3 pH: 13 DO: 38 TSS: 620 Manganese: 578 Copper: 1250 Ammonia & Nitrate: 95 Hardness: 380 Zinc: 81 Conductivity: 812.55 Chloride: 0

Sulphate: 225

Test case: 3
Welcome to Real-Time River Water Qual
Temperature: 21

pH: 7 DO: 53 TSS: 3023 Manganese: 131 Copper: 1797 Ammonia & Nitrate: 52 Hardness: 95 Zinc: 29

Zinc: 29 Conductivity: 1194.98 Chloride: 200 Sulphate: 16 Test case: 4
Welcome to Real-Time River Water Qua.
Temperature: 118
pH: 2
DO: 9

DO: 9
TSS: 2330
Manganese: 699
Copper: 461
Ammonia & Nitrate

Ammonia & Nitrate: 44 Hardness: 431

Hardness: 431 Zinc: 96

Conductivity: 1892.43

Chloride: 128 Sulphate: 900 Test case: 5

Welcome to Real-Time River Water Qual Temperature: -9

Temperature: -9

pH: 0 00: 89 TSS: 3694 Manganese: 482 Copper: 976

Ammonia & Nitrate: 85

Hardness: 774 Zinc: 12

Conductivity: 1690.35

Chloride: 120 Sulphate: 260