|  |
| --- |
| #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" |
|  | ) |