

```
#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 random 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"

)