Challenging Experiment -1

Create a Node-red flow fetching 4 machine details and display in dashboard using CoAP.

JavaScript code

Random_Number_Generator

```
msg.payload= Math.floor(Math.random() * 100)
return msg;
```

Performance Check Function

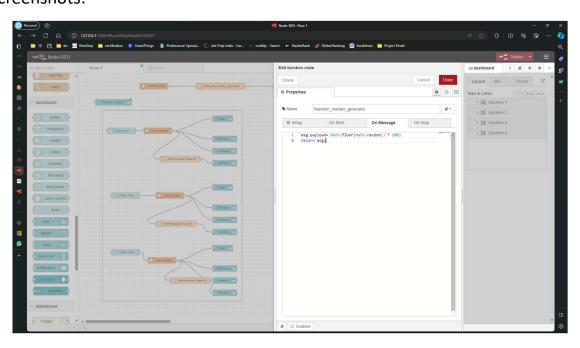
```
var per = msg.payload;
if (per>80){
    msg.payload= "High Performance"
}
else {
    msg.payload="Low Performance"
}
return msg;
```

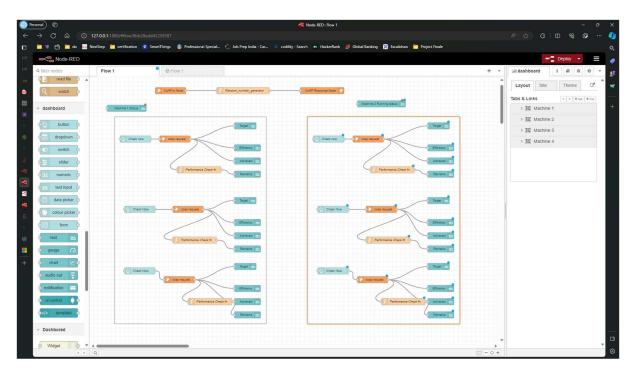
When a CoAP client requests a random number, the CoAP server executes the random number generator function and sends the resulting value (msg.payload) back to the client.

Additionally, I have created four tabs, each corresponding to a separate machine.

These tabs include fields for Target, Efficiency, achieved (%), and Remark, which allows for tracking and evaluating the performance of each machine based on specified criteria

Screenshots:





User Interface:

