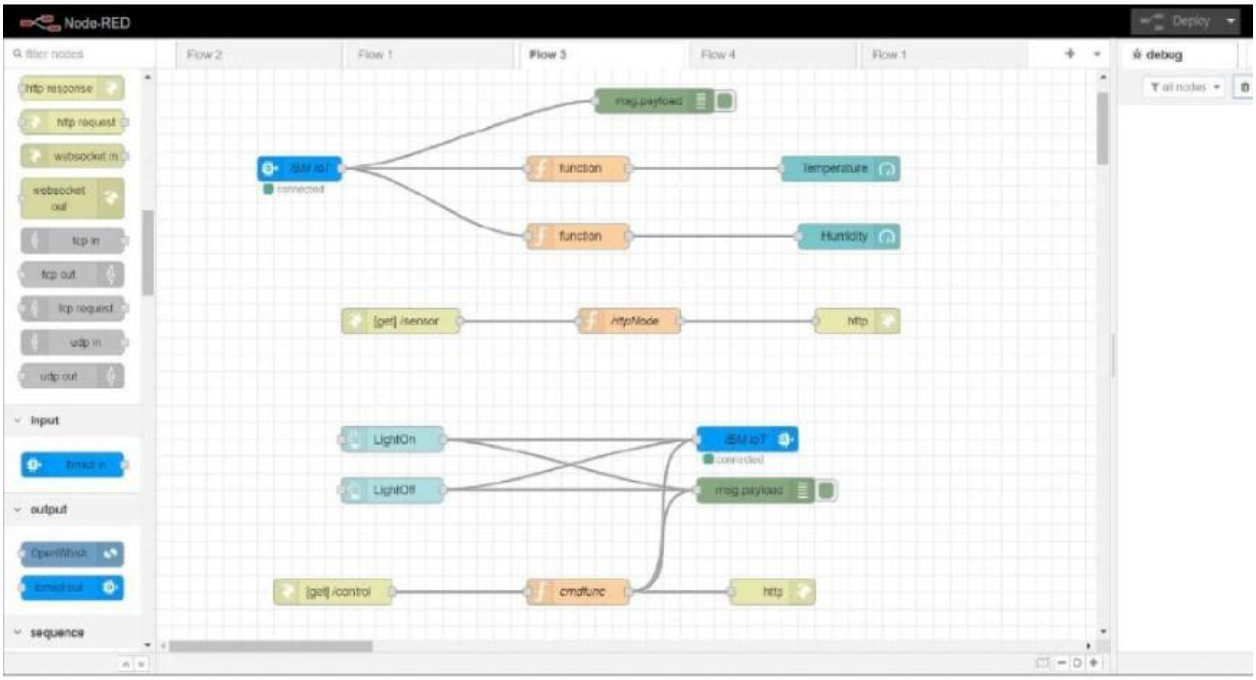
SPRINT-3

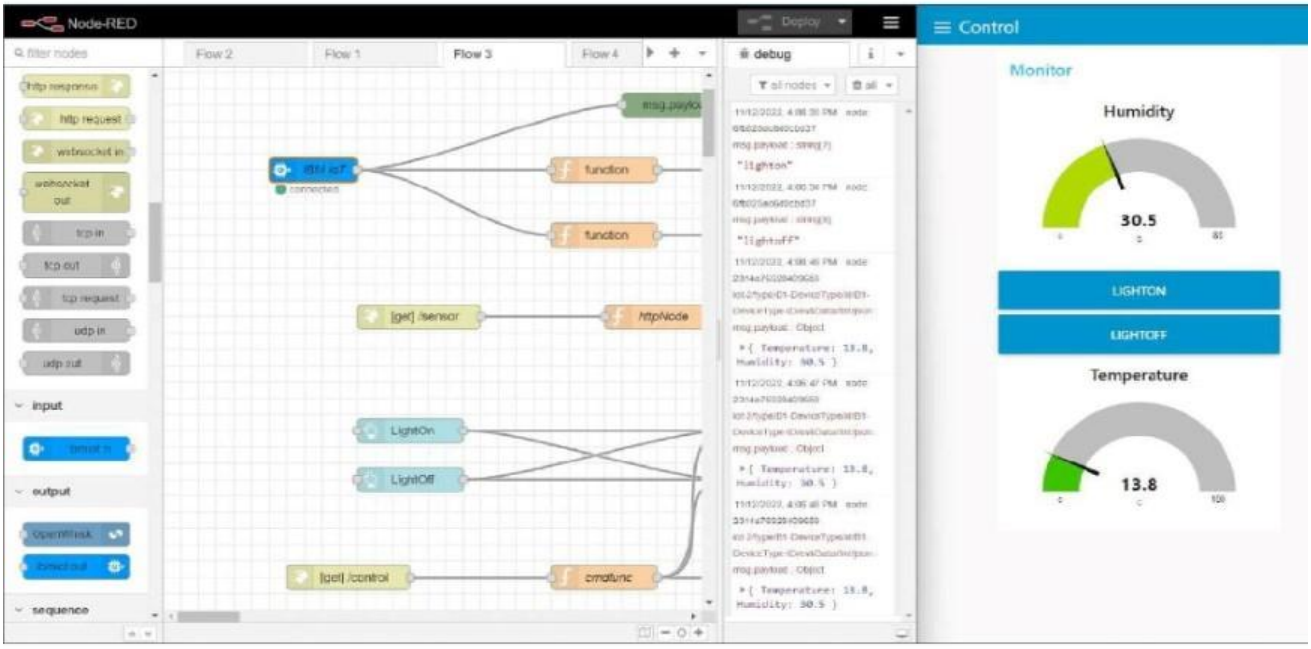
Date	18 November 2022
Team ID	PNT2022TMID40922
Project Name	Hazardous area monitoring for Industrial power plants using IoT.

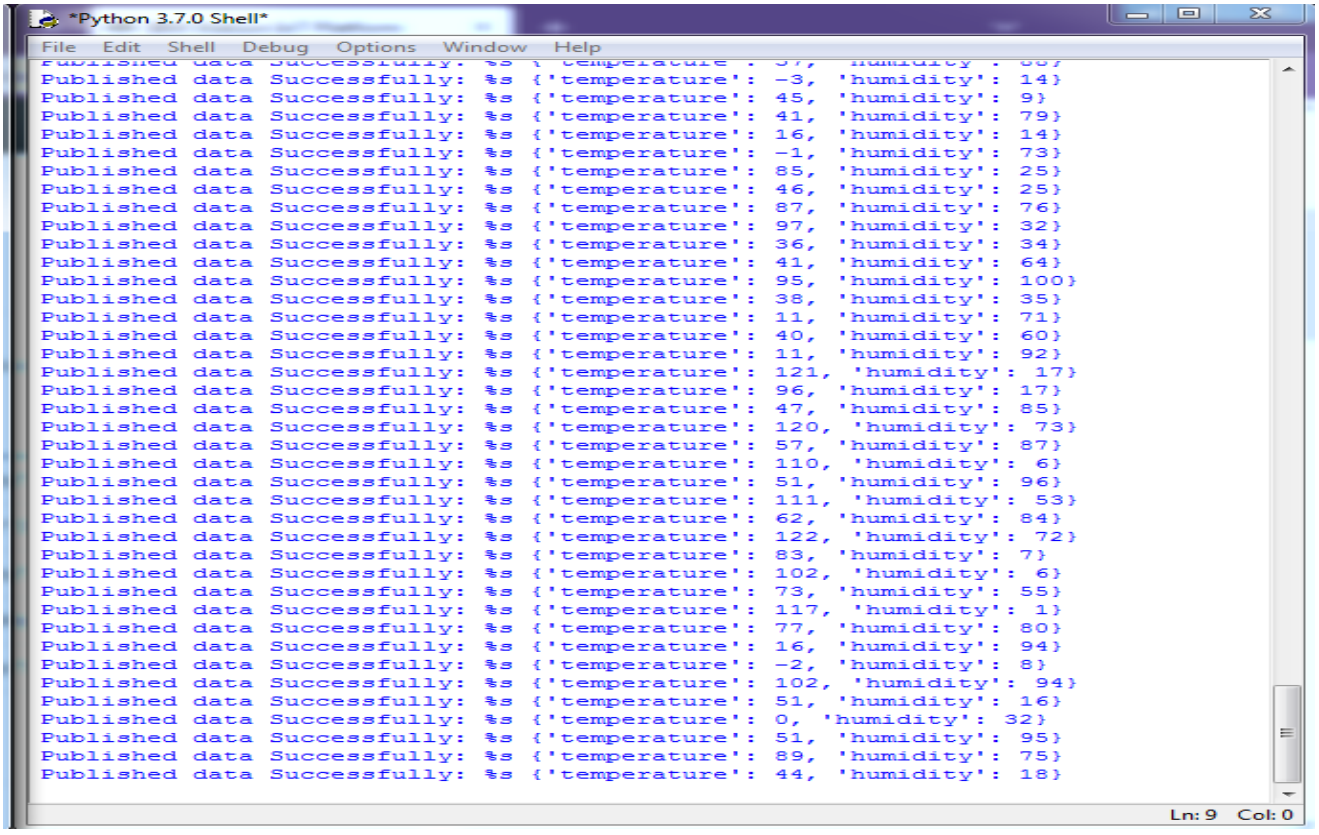
MIT Application Inventor

Building an application for our project using MIT application, designing the model and testingthe application.

Connecting required nodes in the Node-red platform.




Node-RED
Deploy
Flow 2
Flow 1
Flow 3
Flow 4
debug
input
output
sequence
function
function
[get] /sensor
httpNode
LightOn
LightOff
[get] /control
cmdfunc
Control
Monitor
Humidity
30.5
LIGHTON
LIGHTOFF
Temperature
13.8


Python 3.7.0 Shell
File Edit Shell Debug Options Window Help
Published data Successfully: %s {'temperature': -3, 'humidity': 14}
Published data Successfully: %s {'temperature': 45, 'humidity': 9}
Published data Successfully: %s {'temperature': 41, 'humidity': 79}
Published data Successfully: %s {'temperature': 16, 'humidity': 14}
Published data Successfully: %s {'temperature': -1, 'humidity': 73}
Published data Successfully: %s {'temperature': 85, 'humidity': 25}
Published data Successfully: %s {'temperature': 46, 'humidity': 25}
Published data Successfully: %s {'temperature': 87, 'humidity': 76}
Published data Successfully: %s {'temperature': 97, 'humidity': 32}
Published data Successfully: %s {'temperature': 36, 'humidity': 34}
Published data Successfully: %s {'temperature': 41, 'humidity': 64}
Published data Successfully: %s {'temperature': 95, 'humidity': 100}
Published data Successfully: %s {'temperature': 38, 'humidity': 35}
Published data Successfully: %s {'temperature': 11, 'humidity': 71}
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Published data Successfully: %s {'temperature': 11, 'humidity': 92}
Published data Successfully: %s {'temperature': 121, 'humidity': 17}
Published data Successfully: %s {'temperature': 96, 'humidity': 17}
Published data Successfully: %s {'temperature': 47, 'humidity': 85}
Published data Successfully: %s {'temperature': 120, 'humidity': 73}
Published data Successfully: %s {'temperature': 57, 'humidity': 87}
Published data Successfully: %s {'temperature': 110, 'humidity': 6}
Published data Successfully: %s {'temperature': 51, 'humidity': 96}
Published data Successfully: %s {'temperature': 111, 'humidity': 53}
Published data Successfully: %s {'temperature': 62, 'humidity': 84}
Published data Successfully: %s {'temperature': 122, 'humidity': 72}
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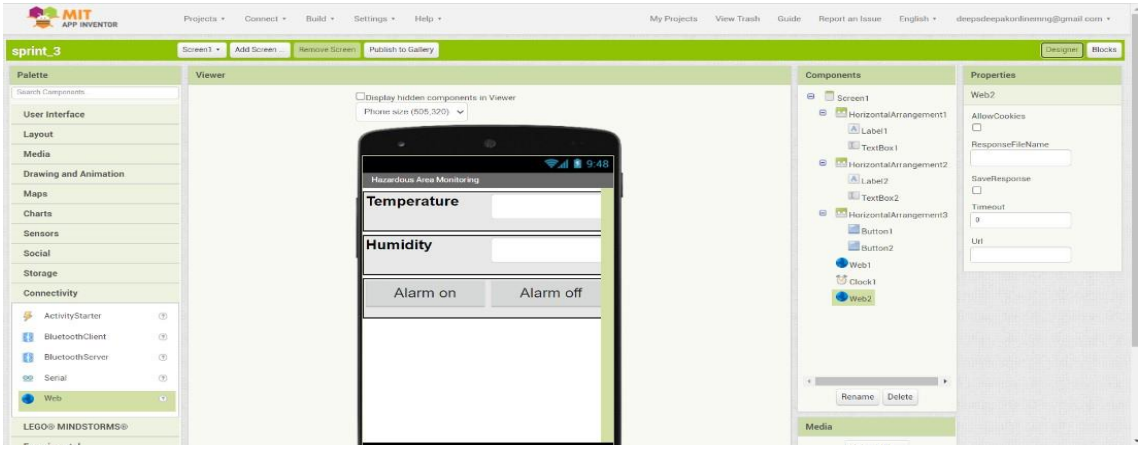
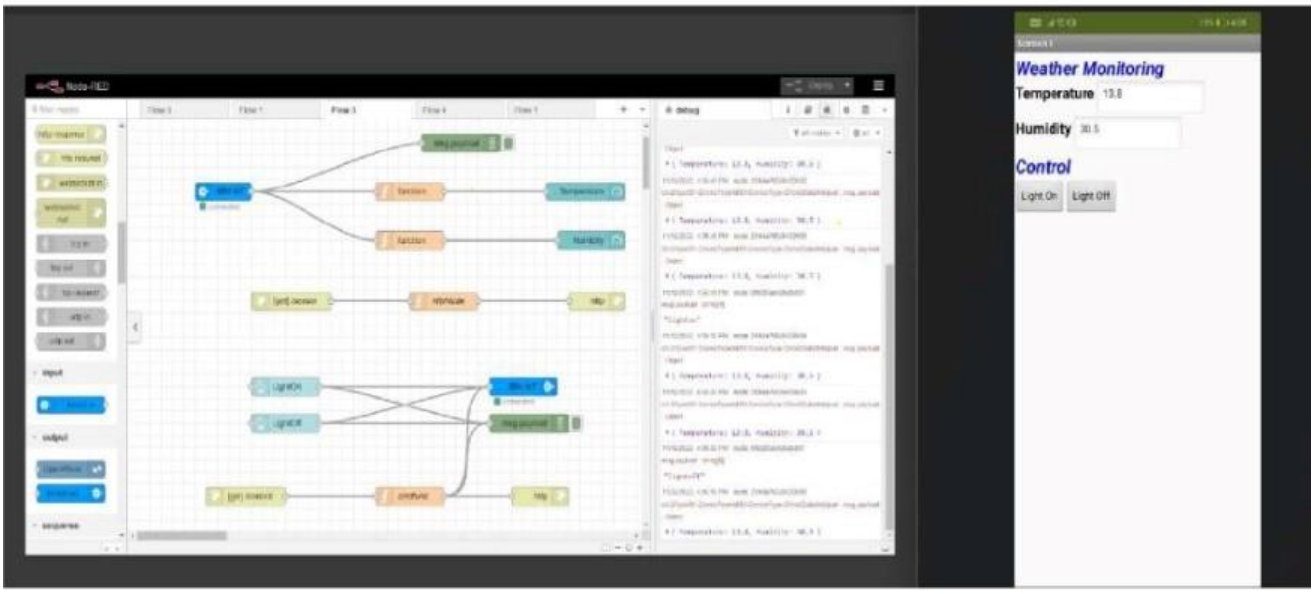
Published data Successfully: %s {'temperature': 102, 'humidity': 6}
Published data Successfully: %s {'temperature': 73, 'humidity': 55}
Published data Successfully: %s {'temperature': 117, 'humidity': 1}
Published data Successfully: %s {'temperature': 77, 'humidity': 80}
Published data Successfully: %s {'temperature': 16, 'humidity': 94}
Published data Successfully: %s {'temperature': -2, 'humidity': 8}
Published data Successfully: %s {'temperature': 102, 'humidity': 94}
Published data Successfully: %s {'temperature': 51, 'humidity': 16}
Published data Successfully: %s {'temperature': 0, 'humidity': 32}
Published data Successfully: %s {'temperature': 51, 'humidity': 95}
Published data Successfully: %s {'temperature': 89, 'humidity': 75}
Published data Successfully: %s {'temperature': 44, 'humidity': 18}
Ln: 9 Col: 0

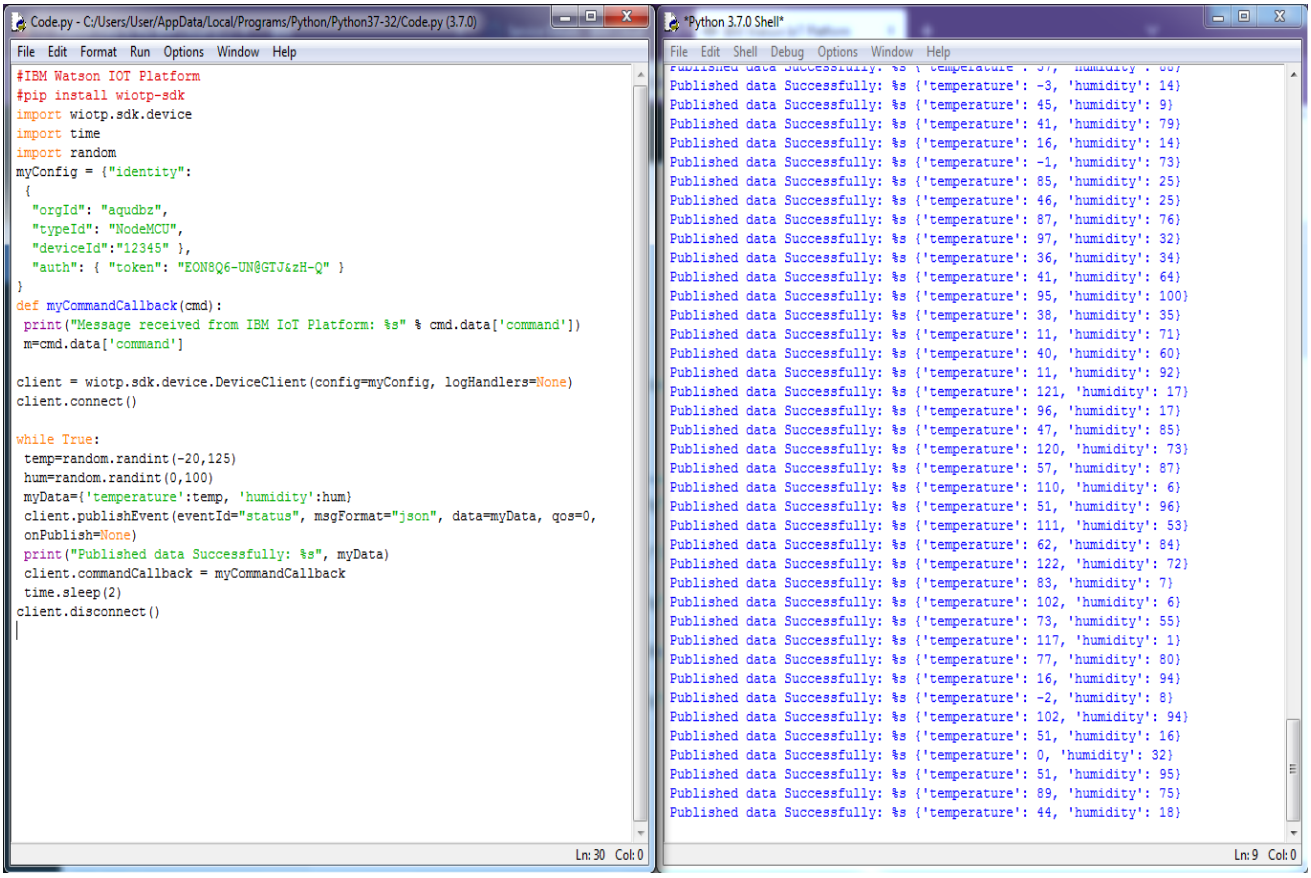
Connecting with the MIT Application Inventor to display temperature,humidity and alarm condition.



Attaching web link with the connected blocks in the MIT application inventor

Detecting high temperature and displaying “ALERT” message in the MIT application.





Downloading apk file and building mobile applications using python script for sensing temperature for Hazardous area monitoring conditions in industrial areas.