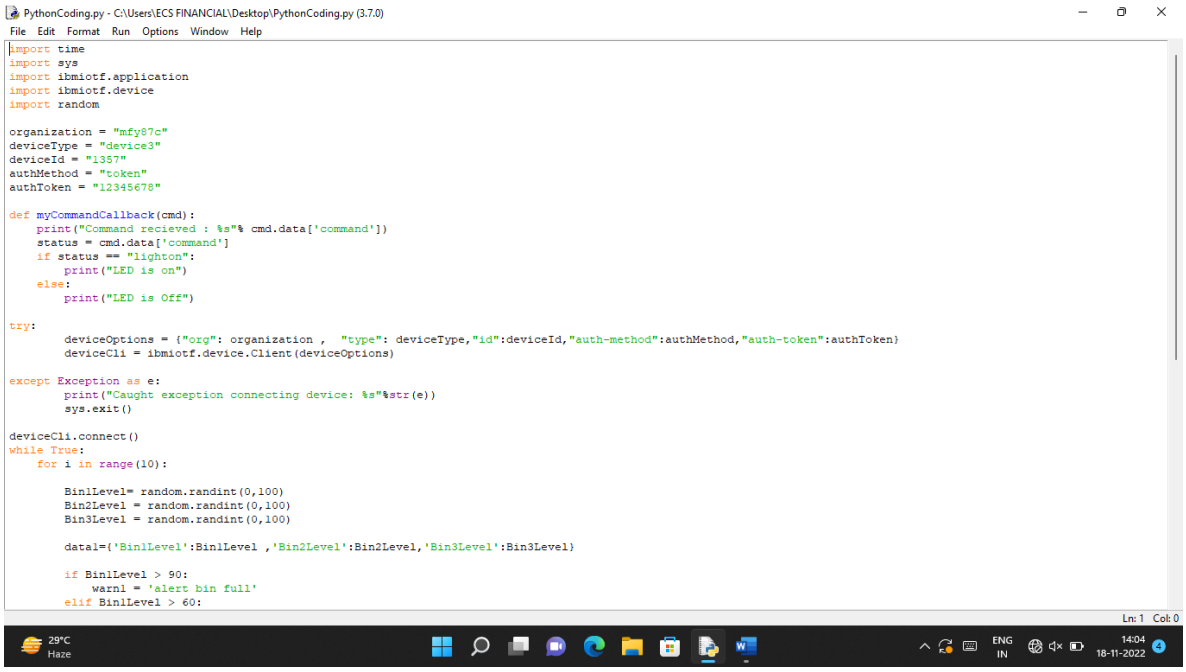
PROJECT DEVELOPMENT PHASE

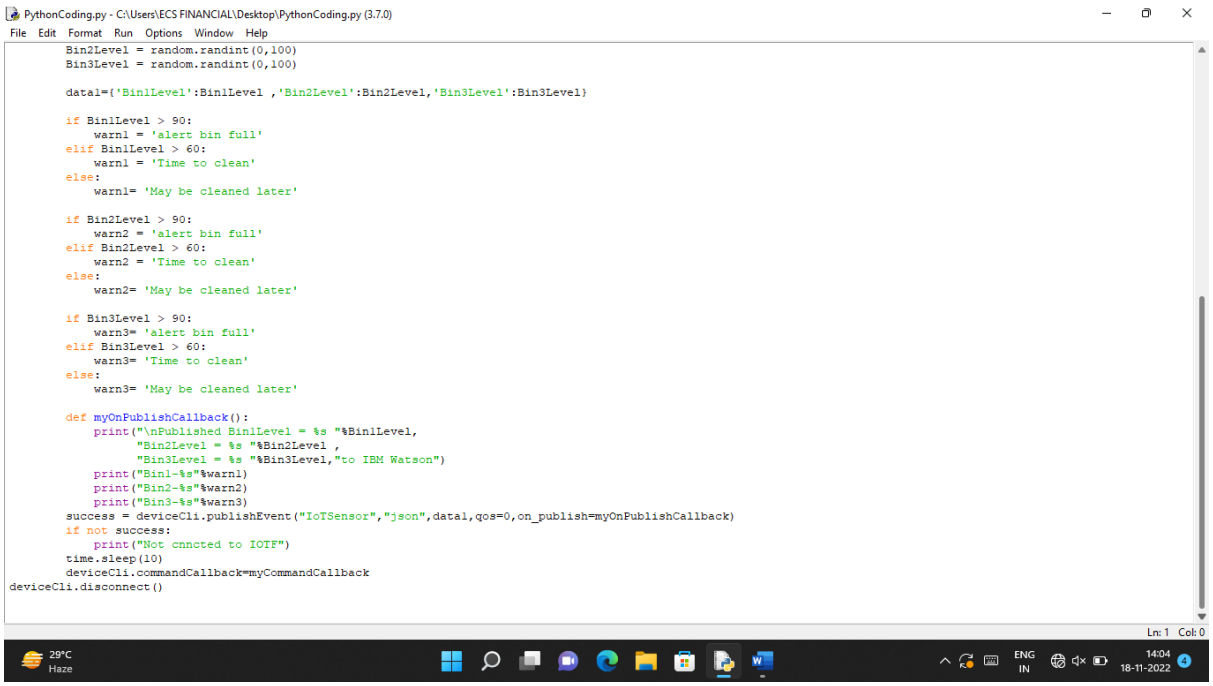
SPRINT 1 DELIVERY

TEAM ID	PNT2022TMID37162
Project Name	Smart Waste Management System for Metropolitan cities
Sprint Number	Sprint 1

Python Coding:-

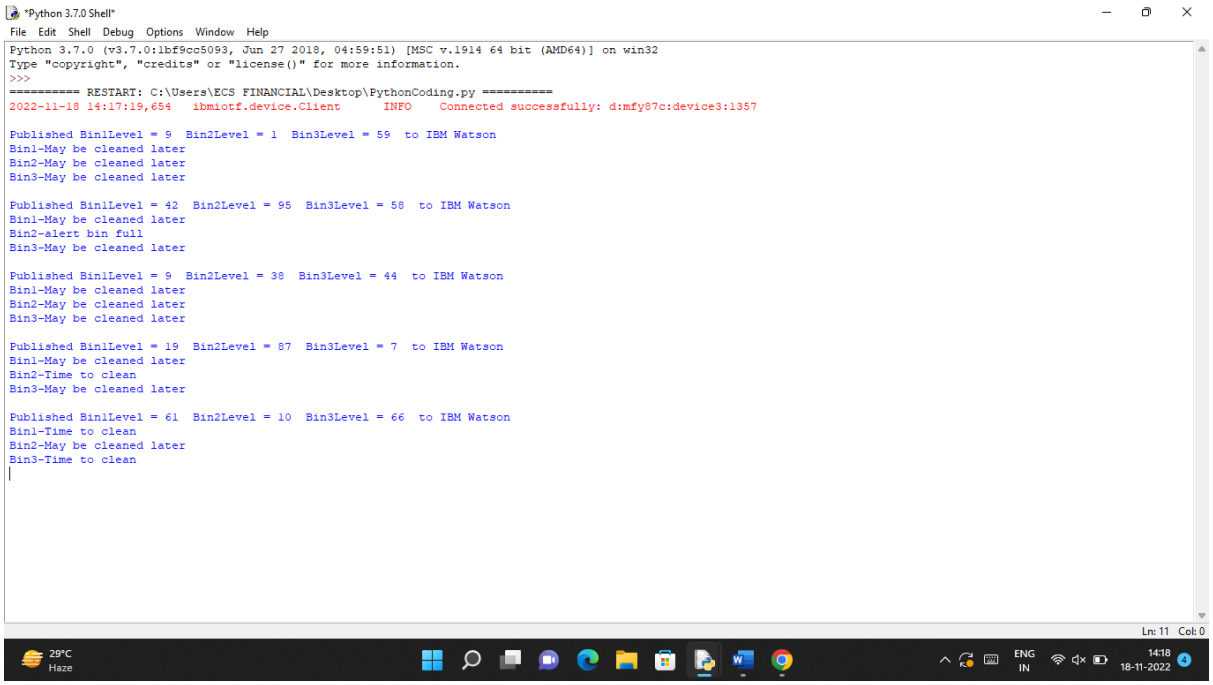


```
PythonCoding.py - C:\Users\ECS FINANCIAL\Desktop\PythonCoding.py (3.7.0)
File  Edit  Format  Run  Options  Window  Help
import time
import sys
import ibmiotf.application
import ibmiotf.device
import random

organization = "mfy87c"
deviceType = "device3"
deviceId = "1357"
authMethod = "token"
authToken = "12345678"

def myCommandCallback(cmd):
    print("Command recieved : %s"% cmd.data['command'])
    status = cmd.data['command']
    if status == "lighton":
        print("LED is on")
    else:
        print("LED is Off")

try:
        deviceOptions = {"org": organization ,  "type": deviceType,"id":deviceId,"auth-method":authMethod,"auth-token":authToken}
        deviceCli = ibmiotf.device.Client(deviceOptions)

except Exception as e:
        print("Caught exception connecting device: %s"%str(e))
        sys.exit()

deviceCli.connect()
while True:
    for i in range(10):

        Bin1Level= random.randint(0,100)
        Bin2Level = random.randint(0,100)
        Bin3Level = random.randint(0,100)

        data1={'Bin1Level':Bin1Level ,'Bin2Level':Bin2Level,'Bin3Level':Bin3Level}

        if Bin1Level > 90:
            warn1 = 'alert bin full'
        elif Bin1Level > 60:
```

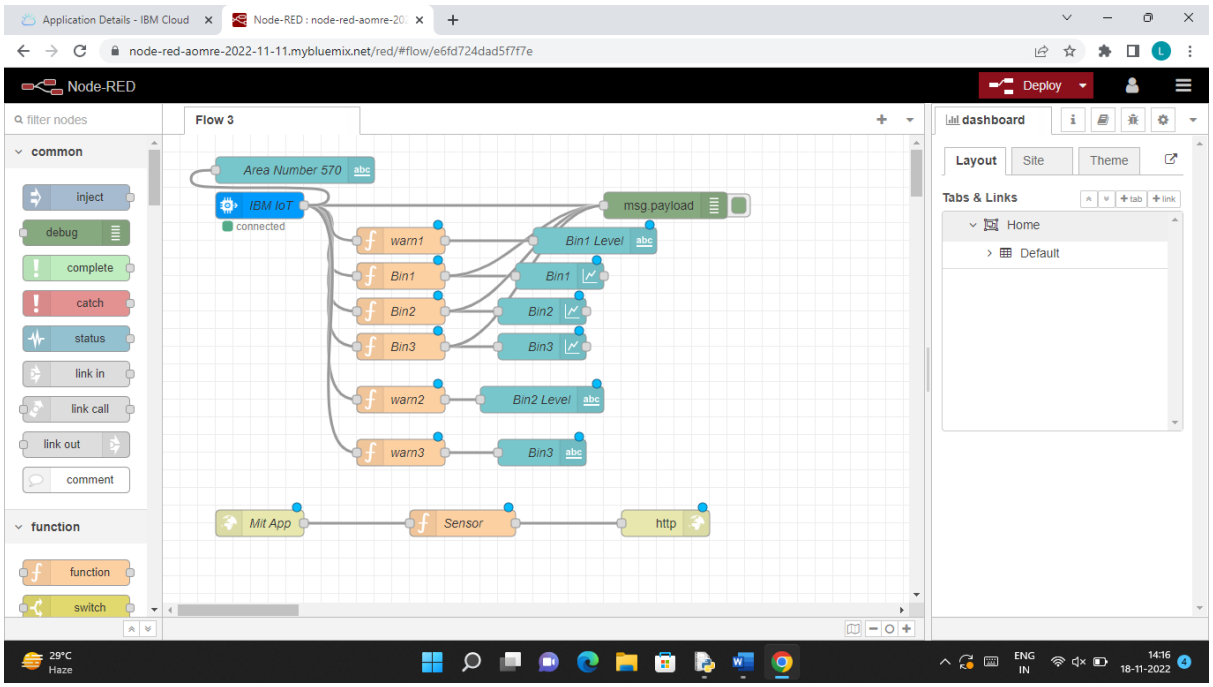


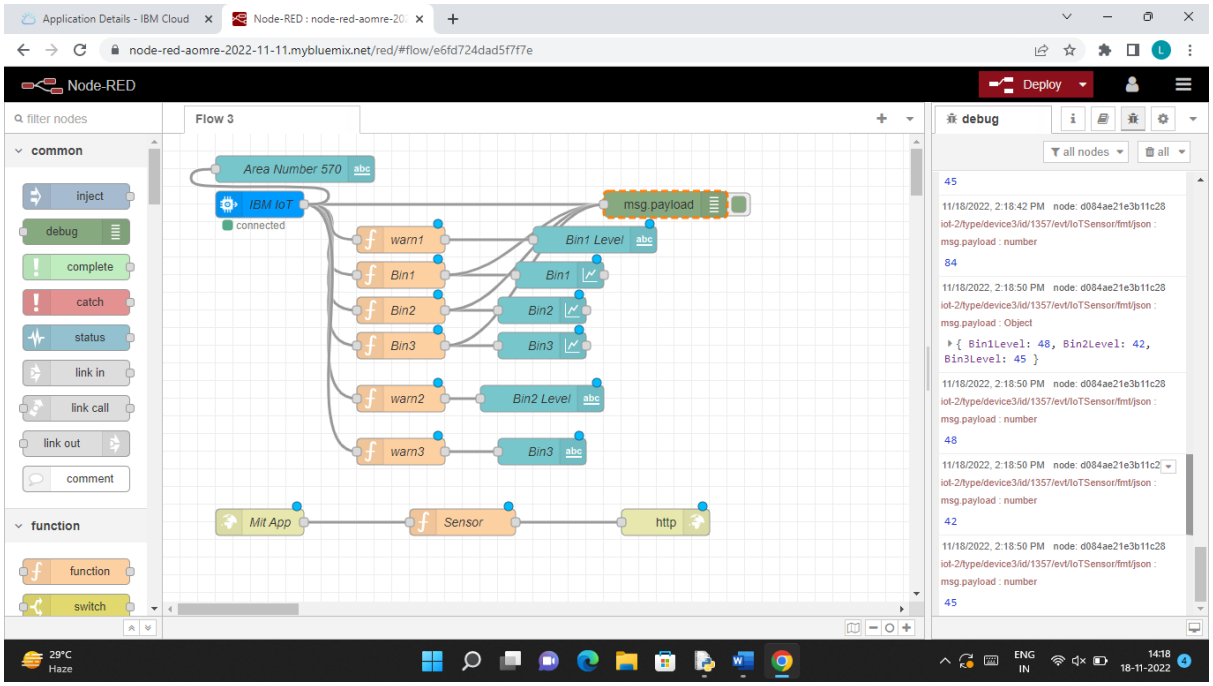
```
PythonCoding.py - C:\Users\ECS FINANCIAL\Desktop\PythonCoding.py (3.7.0)
File  Edit  Format  Run  Options  Window  Help
        Bin2Level = random.randint(0,100)
        Bin3Level = random.randint(0,100)

        data1={'Bin1Level':Bin1Level ,'Bin2Level':Bin2Level,'Bin3Level':Bin3Level}

        if Bin1Level > 90:
            warn1 = 'alert bin full'
        elif Bin1Level > 60:
            warn1 = 'Time to clean'
        else:
            warn1= 'May be cleaned later'

        if Bin2Level > 90:
            warn2 = 'alert bin full'
        elif Bin2Level > 60:
            warn2 = 'Time to clean'
        else:
            warn2= 'May be cleaned later'

        if Bin3Level > 90:
            warn3= 'alert bin full'
        elif Bin3Level > 60:
            warn3= 'Time to clean'
        else:
            warn3= 'May be cleaned later'

        def myOnPublishCallback():
            print("\nPublished Bin1Level = %s "%Bin1Level,
                  "Bin2Level = %s "%Bin2Level ,
                  "Bin3Level = %s "%Bin3Level,"to IBM Watson")
            print("Bin1-%s"%warn1)
            print("Bin2-%s"%warn2)
            print("Bin3-%s"%warn3)
        success = deviceCli.publishEvent("IoTSensor","json",data1,qos=0,on_publish=myOnPublishCallback)
        if not success:
            print("Not cnncted to IOTF")
        time.sleep(10)
        deviceCli.commandCallback=myCommandCallback
deviceCli.disconnect()
```

PYHTON OUTPUT;-

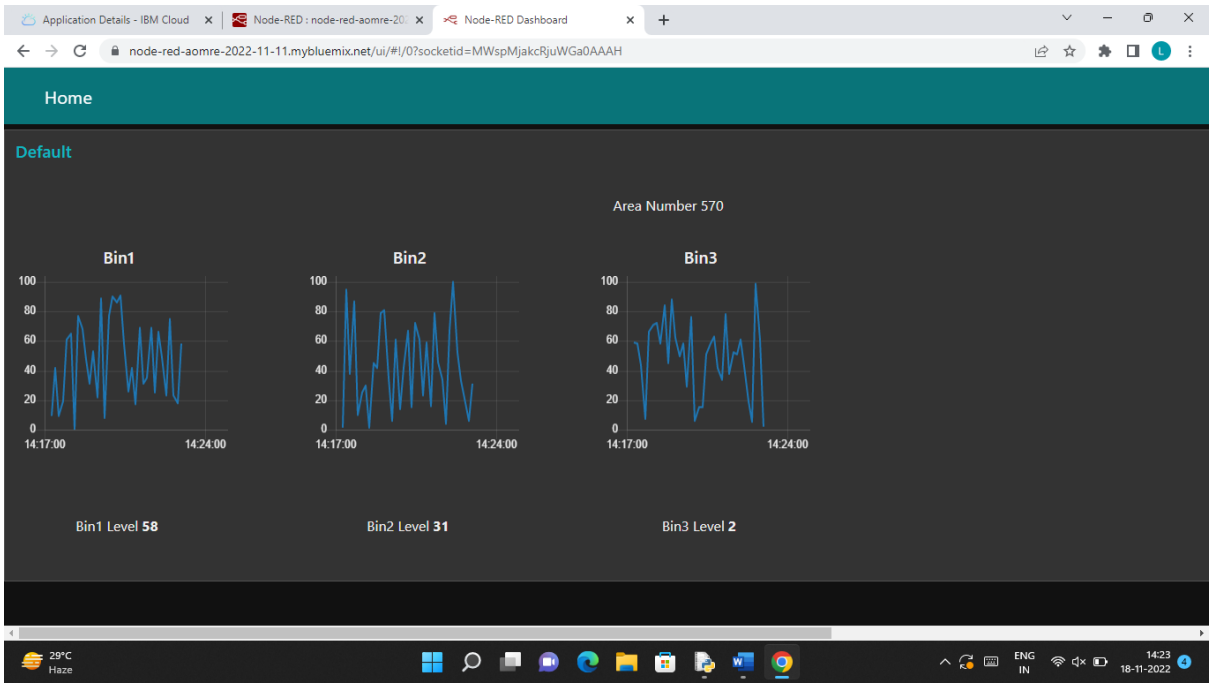


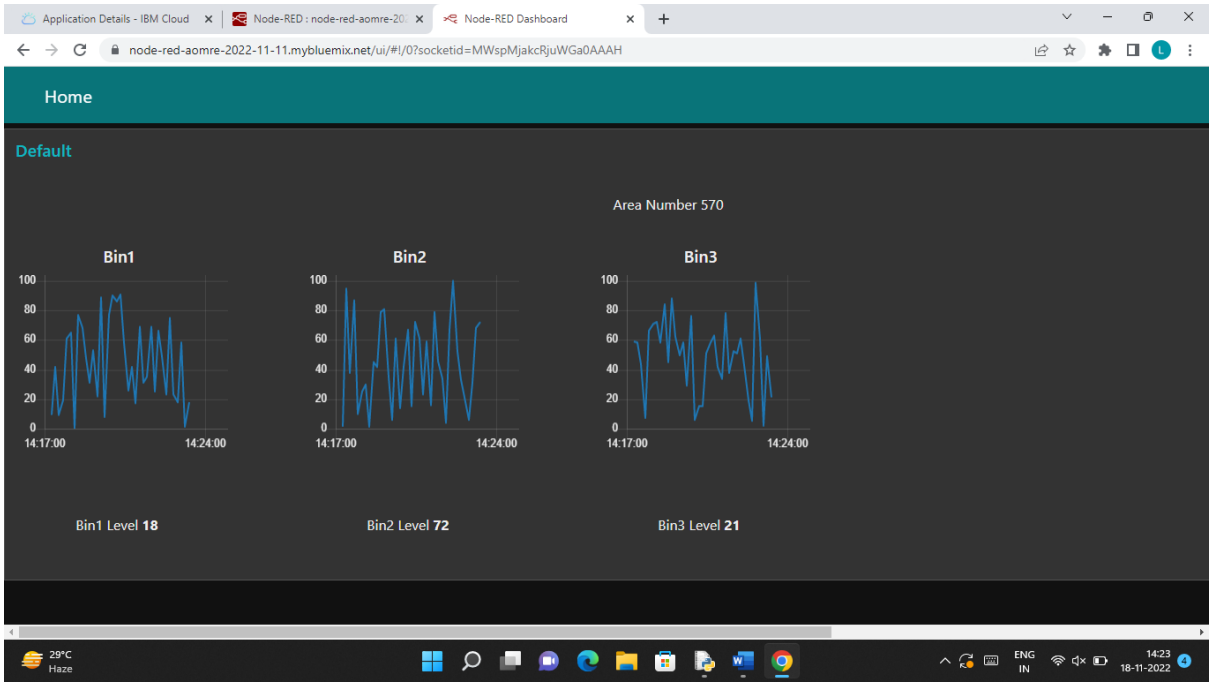
NODE-RED CONNECTIONS;-



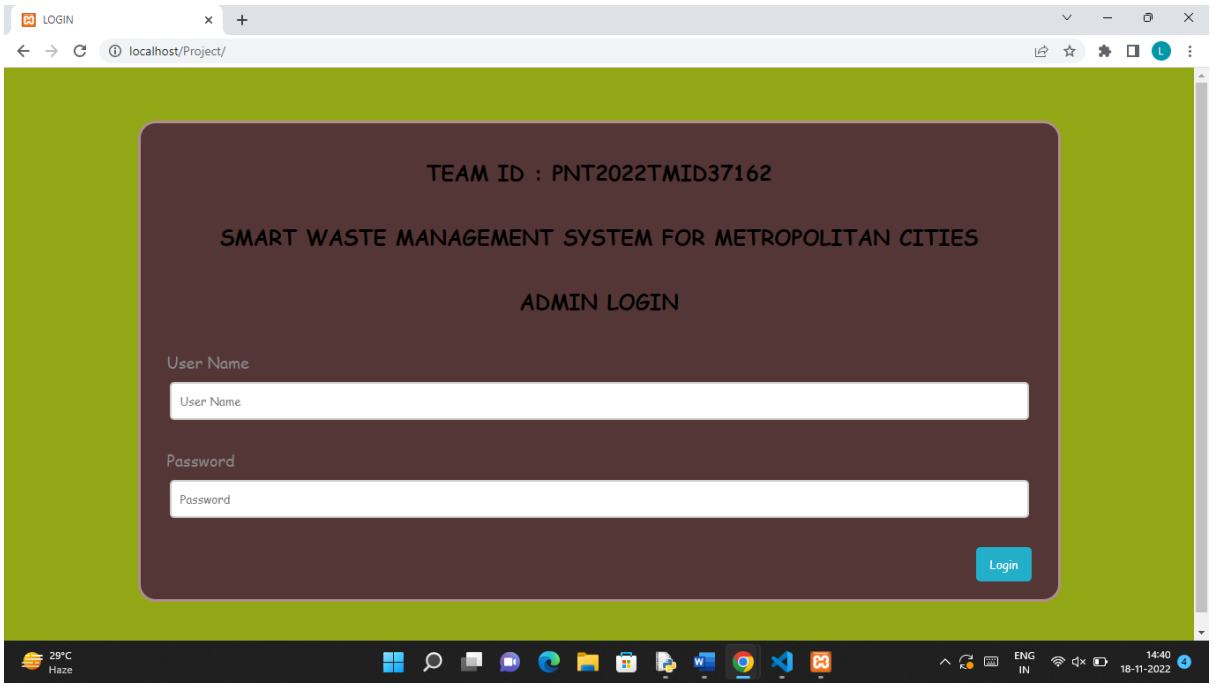


NODE RED DASHBOARD:-

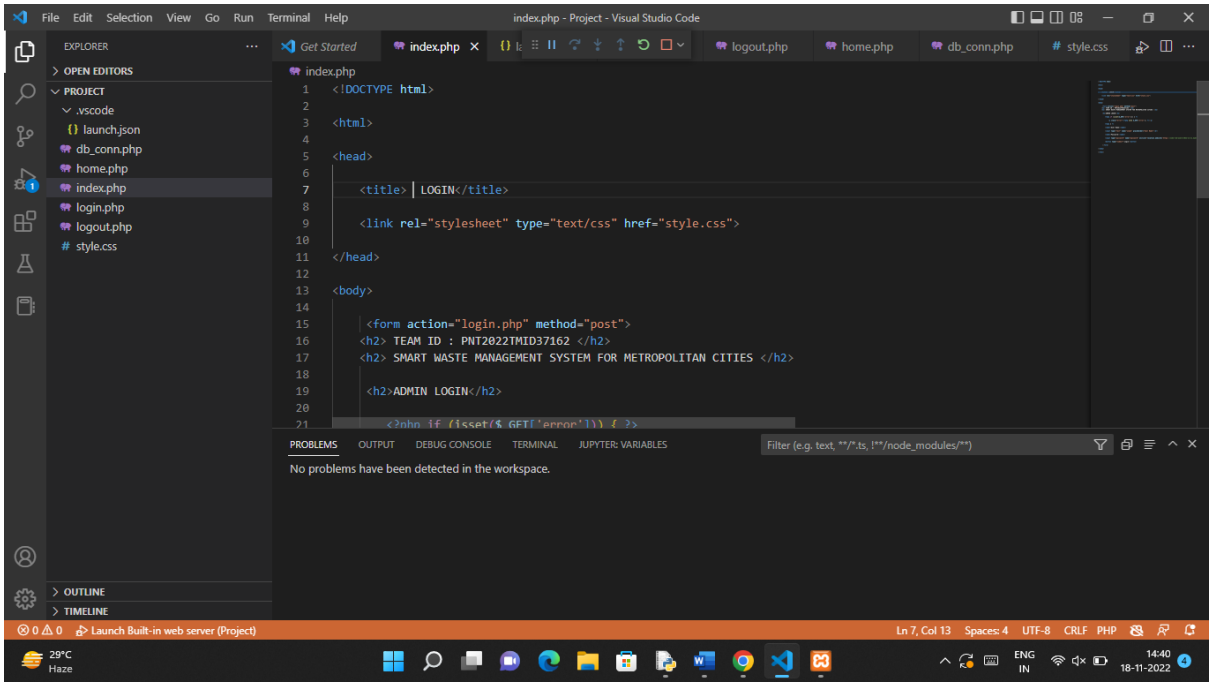


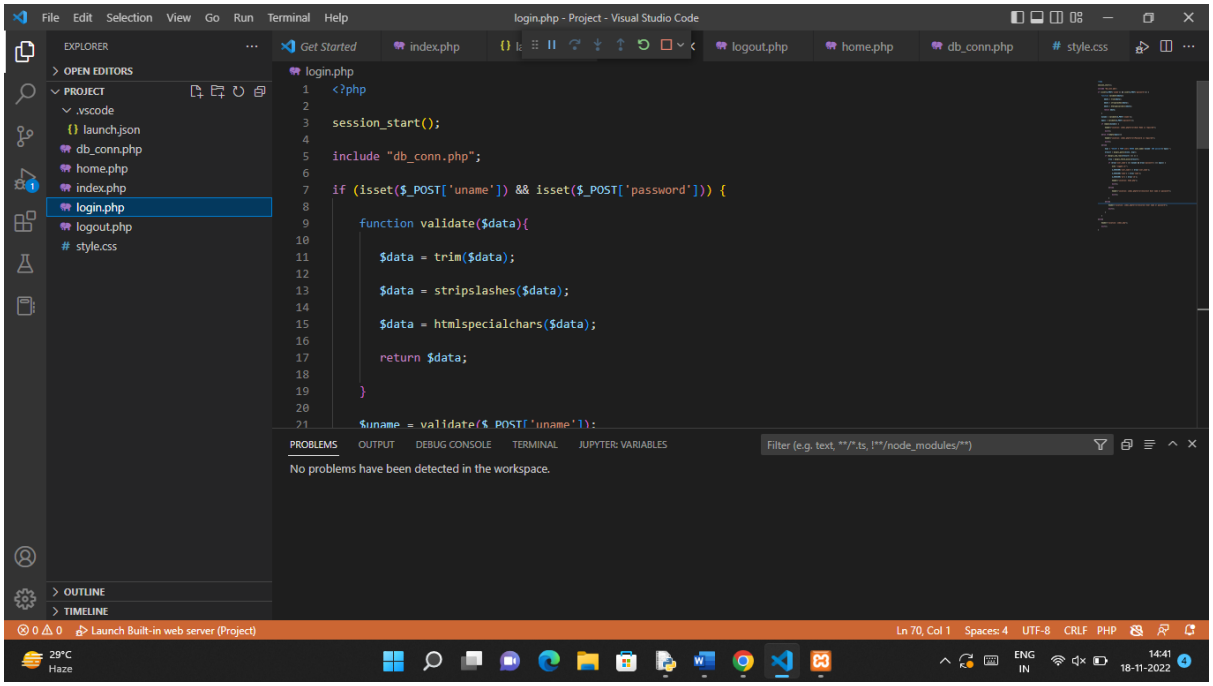


ADMIN LOGIN PAGE:-



LOGIN CODE:-


File Edit Selection View Go Run Terminal Help
index.php - Project - Visual Studio Code
EXPLORER
OPEN EDITORS
PROJECT
.vscode
launch.json
db_conn.php
home.php
index.php
login.php
logout.php
style.css
Get Started
index.php
logout.php
home.php
db_conn.php
style.css
index.php
1 <!DOCTYPE html>
2
3 <html>
4
5 <head>
6
7 <title> LOGIN</title>
8
9 <link rel="stylesheet" type="text/css" href="style.css">
10
11 </head>
12
13 <body>
14
15 <form action="login.php" method="post">
16 <h2> TEAM ID : PNT2022TMID37162 </h2>
17 <h2> SMART WASTE MANAGEMENT SYSTEM FOR METROPOLITAN CITIES </h2>
18
19 <h2>ADMIN LOGIN</h2>
20
21 <?php if (isset($_GET['error'])) { ?>
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL JUPYTER: VARIABLES
Filter (e.g. text, **/*.ts, !**/node_modules/**)
No problems have been detected in the workspace.
OUTLINE
TIMELINE
Launch Built-in web server (Project)
Ln 7, Col 13 Spaces: 4 UTF-8 CRLF PHP
29°C Haze
ENG IN
14:40 18-11-2022


File Edit Selection View Go Run Terminal Help
login.php - Project - Visual Studio Code
EXPLORER
OPEN EDITORS
PROJECT
.vscode
launch.json
db_conn.php
home.php
index.php
login.php
logout.php
style.css
Get Started
index.php
logout.php
home.php
db_conn.php
style.css
login.php
1 <?php
2
3 session_start();
4
5 include "db_conn.php";
6
7 if (isset($_POST['uname']) && isset($_POST['password'])) {
8
9 function validate($data){
10
11 $data = trim($data);
12
13 $data = stripslashes($data);
14
15 $data = htmlspecialchars($data);
16
17 return $data;
18
19 }
20
21 $uname = validate($_POST['uname']);
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL JUPYTER: VARIABLES
Filter (e.g. text, **/*.ts, !**/node_modules/**)
No problems have been detected in the workspace.
OUTLINE
TIMELINE
Launch Built-in web server (Project)
Ln 70, Col 1 Spaces: 4 UTF-8 CRLF PHP
29°C Haze
ENG IN
14:41 18-11-2022