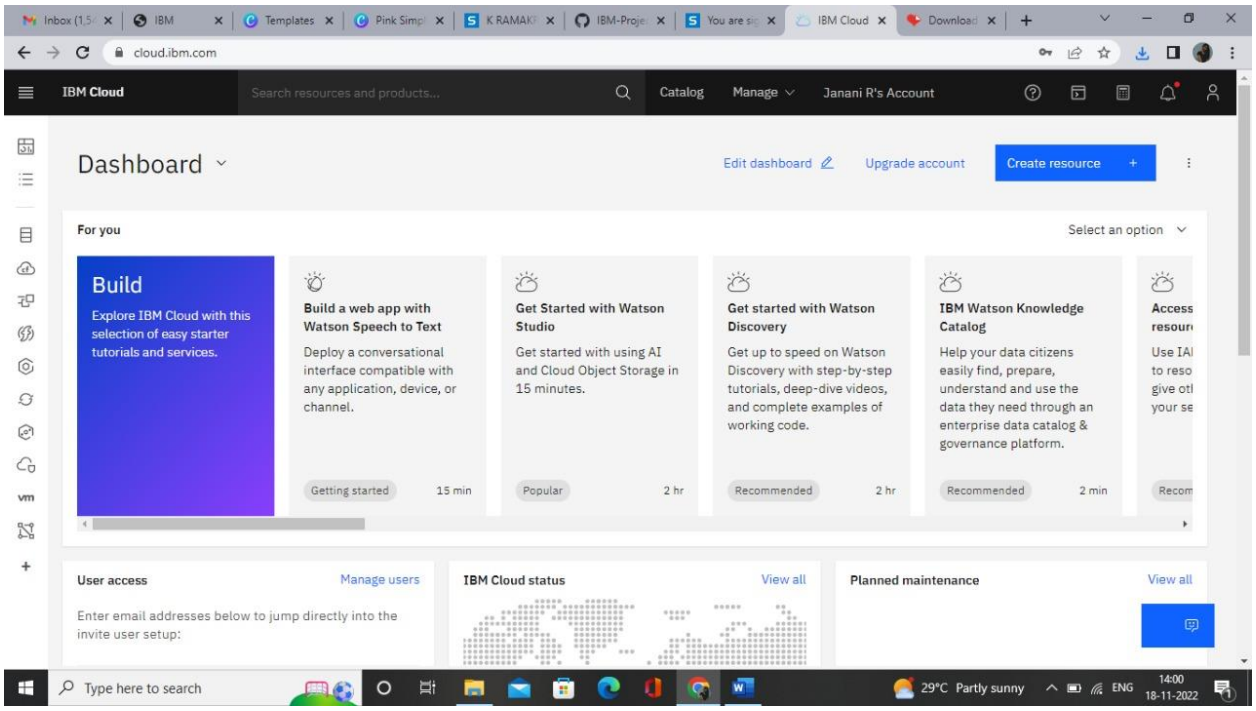
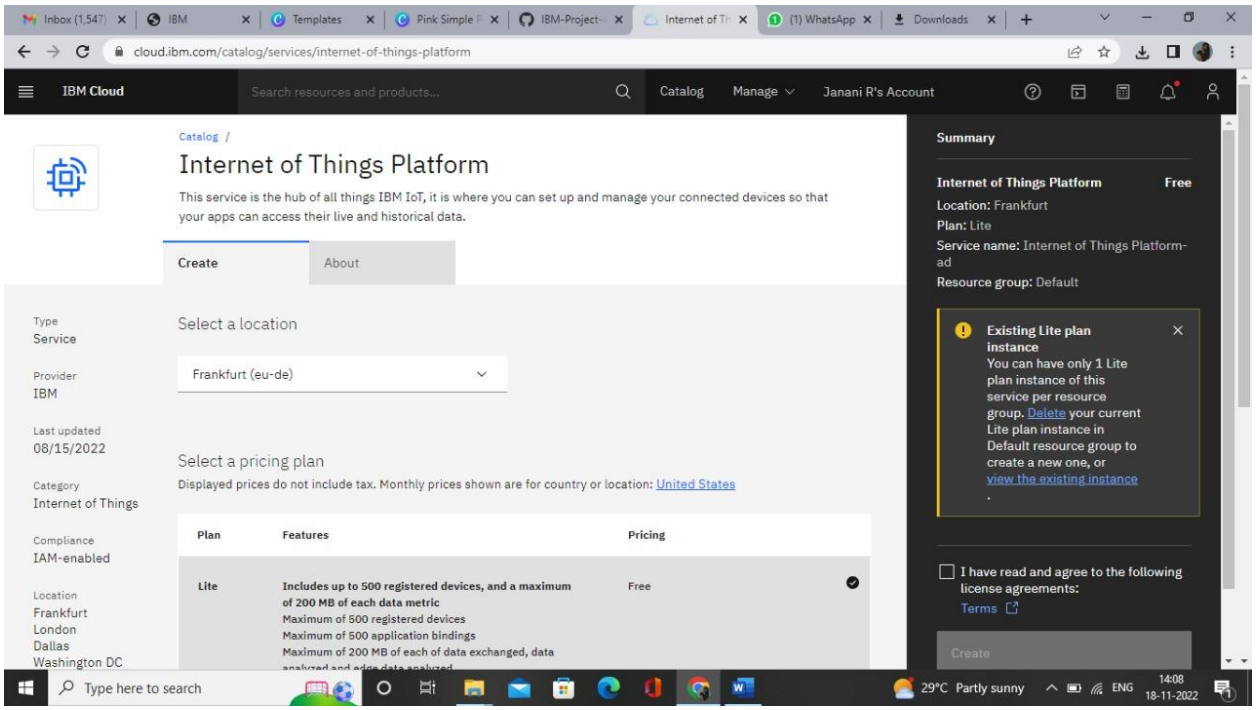
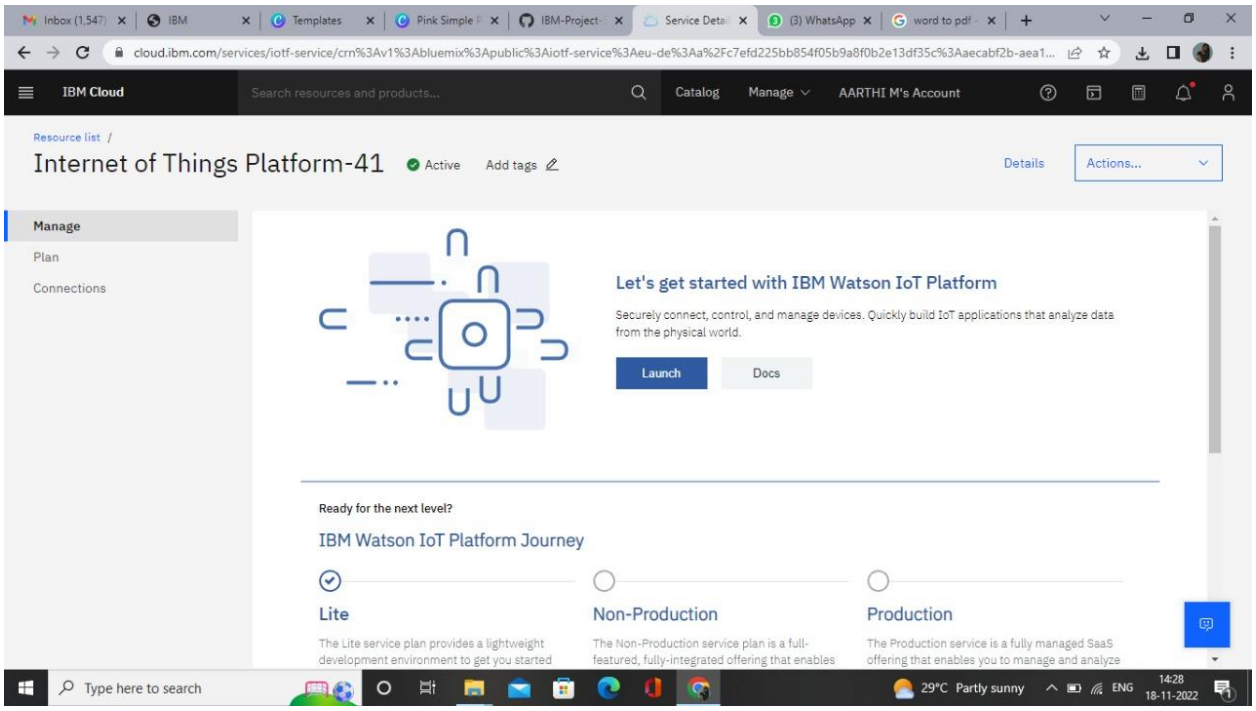
REAL TIME RIVER WATER QUALITY MONITORING AND CONTROL SYSTEM

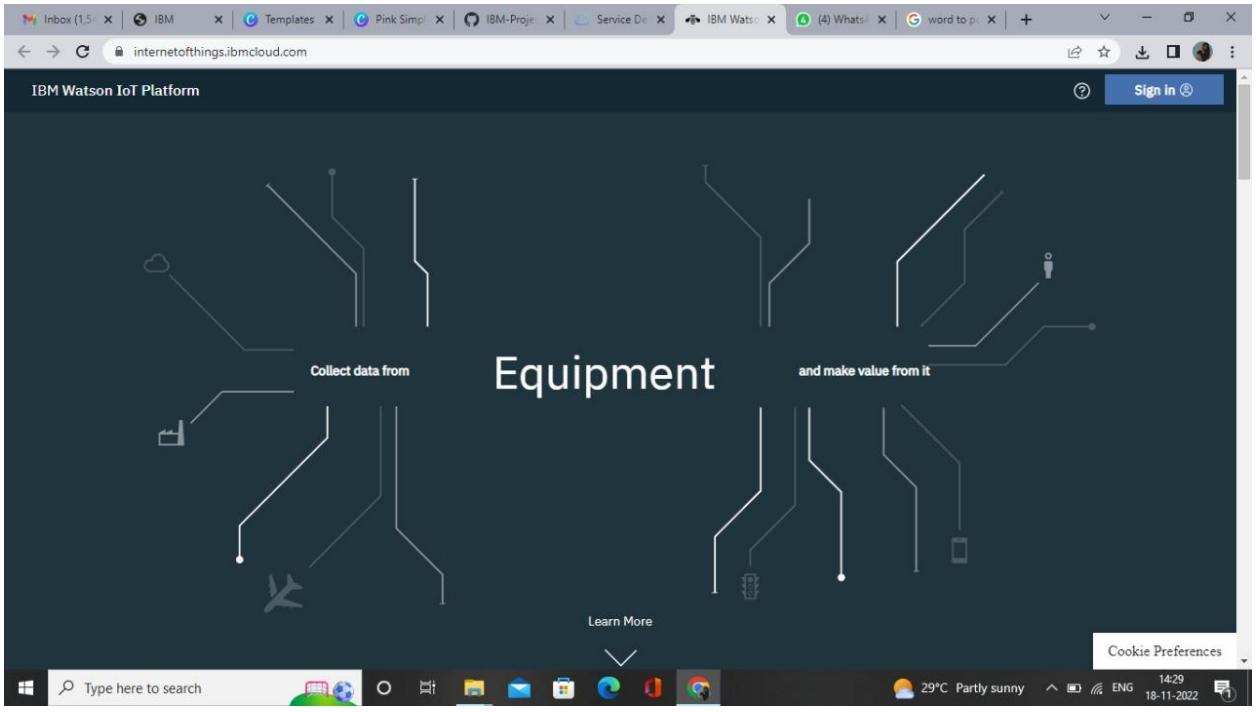
DEVICE

DATE	15 OCTOBER 2022
TEAM ID	PNT2022TMID11003
PROJECT TITLE	Real time river water quality monitoring and control system
MAXIMUM MARKS	4 marks


cloud.ibm.com
IBM Cloud
Search resources and products...
Catalog
Manage
Janani R's Account
Dashboard
Edit dashboard
Upgrade account
Create resource
For you
Select an option
Build
Explore IBM Cloud with this selection of easy starter tutorials and services.
Build a web app with Watson Speech to Text
Deploy a conversational interface compatible with any application, device, or channel.
Getting started
15 min
Get Started with Watson Studio
Get started with using AI and Cloud Object Storage in 15 minutes.
Popular
2 hr
Get started with Watson Discovery
Get up to speed on Watson Discovery with step-by-step tutorials, deep-dive videos, and complete examples of working code.
Recommended
2 hr
IBM Watson Knowledge Catalog
Help your data citizens easily find, prepare, understand and use the data they need through an enterprise data catalog & governance platform.
Recommended
2 min
User access
Manage users
Enter email addresses below to jump directly into the invite user setup:
IBM Cloud status
View all
Planned maintenance
View all
Type here to search
29°C Partly sunny
ENG
14:00
18-11-2022


cloud.ibm.com/catalog/services/internet-of-things-platform
IBM Cloud
Search resources and products...
Catalog
Manage
Janani R's Account
Catalog /
Internet of Things Platform
This service is the hub of all things IBM IoT, it is where you can set up and manage your connected devices so that your apps can access their live and historical data.
Create
About
Type
Service
Provider
IBM
Last updated
08/15/2022
Category
Internet of Things
Compliance
IAM-enabled
Location
Frankfurt
London
Dallas
Washington DC
Select a location
Frankfurt (eu-de)
Select a pricing plan
Displayed prices do not include tax. Monthly prices shown are for country or location: United States
Plan
Features
Pricing
Lite
Includes up to 500 registered devices, and a maximum of 200 MB of each data metric
Maximum of 500 registered devices
Maximum of 500 application bindings
Maximum of 200 MB of each of data exchanged, data
Free
Summary
Internet of Things Platform
Free
Location: Frankfurt
Plan: Lite
Service name: Internet of Things Platform-ad
Resource group: Default
Existing Lite plan instance
You can have only 1 Lite plan instance of this service per resource group. Delete your current Lite plan instance in Default resource group to create a new one, or view the existing instance .
I have read and agree to the following license agreements:
Terms
Create
Type here to search
29°C Partly sunny
ENG
14:08
18-11-2022


IBM Cloud
Search resources and products...
Catalog
Manage
AARTHI M's Account
Resource list /
Internet of Things Platform-41
Active
Add tags
Details
Actions...
Manage
Plan
Connections
Let's get started with IBM Watson IoT Platform
Securely connect, control, and manage devices. Quickly build IoT applications that analyze data from the physical world.
Launch
Docs
Ready for the next level?
IBM Watson IoT Platform Journey
Lite
The Lite service plan provides a lightweight development environment to get you started
Non-Production
The Non-Production service plan is a full-featured, fully-integrated offering that enables
Production
The Production service is a fully managed SaaS offering that enables you to manage and analyze
Type here to search
29°C Partly sunny
ENG
14:28
18-11-2022


internetofthings.ibmcloud.com
IBM Watson IoT Platform
Sign in
Collect data from
Equipment
and make value from it
Learn More
Cookie Preferences
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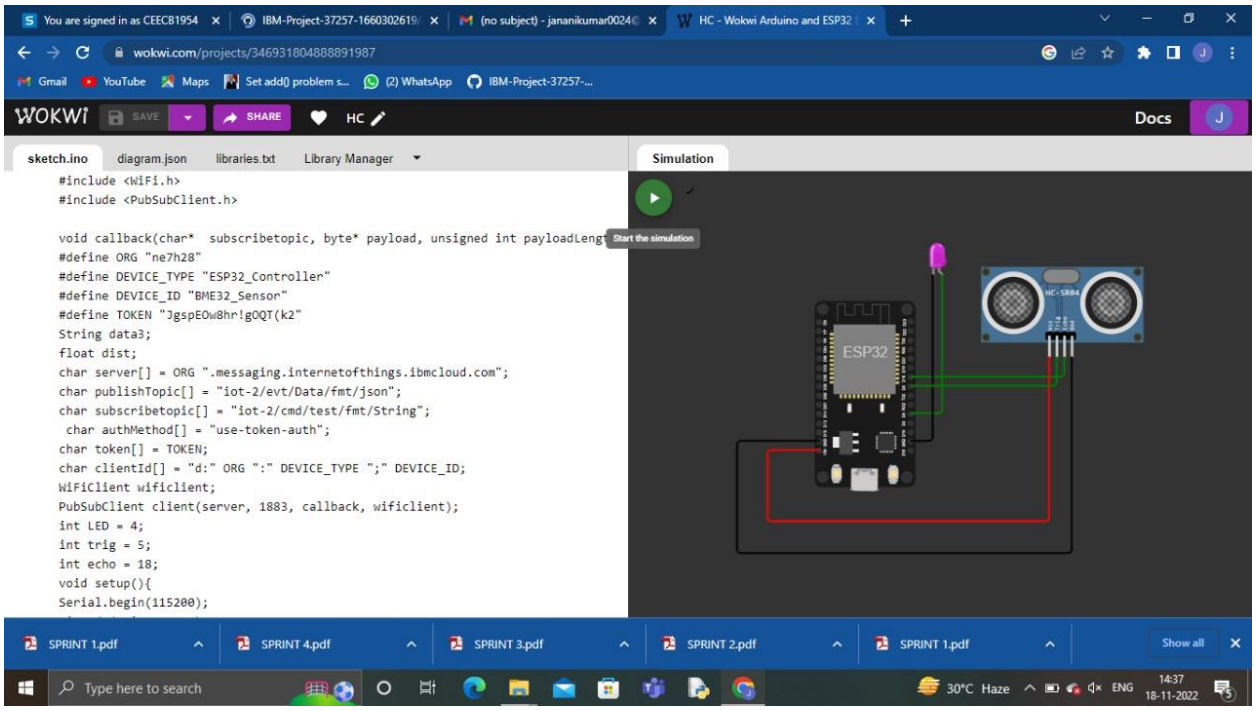
29°C Partly sunny
ENG
14:29
18-11-2022

SIMULATION


You are signed in as CEEC81954
IBM-Project-37257-1660302619
(no subject) - jananikumar0024
HC - Wokwi Arduino and ESP32
wokwi.com/projects/346931804888891987
Gmail
YouTube
Maps
Set add() problem s...
(2) WhatsApp
IBM-Project-37257-...
WOKWI
SAVE
SHARE
HC
Docs
sketch.ino
diagram.json
libraries.txt
Library Manager
#include <WiFi.h>
#include <PubSubClient.h>
void callback(char* subscribetopic, byte* payload, unsigned int payloadLengt
#define ORG "ne7h28"
#define DEVICE_TYPE "ESP32_Controller"
#define DEVICE_ID "BME32_Sensor"
#define TOKEN "JgspEOw8hr!gOQT(k2"
String data3;
float dist;
char server[] = ORG ".messaging.internetofthings.ibmcloud.com";
char publishTopic[] = "iot-2/evt/Data/fmt/json";
char subscribetopic[] = "iot-2/cmd/test/fmt/String";
char authMethod[] = "use-token-auth";
char token[] = TOKEN;
char clientId[] = "d:" ORG ":" DEVICE_TYPE ";" DEVICE_ID;
WiFiClient wificlient;
PubSubClient client(server, 1883, callback, wificlient);
int LED = 4;
int trig = 5;
int echo = 18;
void setup(){
Serial.begin(115200);
Simulation
Start the simulation
ESP32
HC-SR04
SPRINT 1.pdf
SPRINT 4.pdf
SPRINT 3.pdf
SPRINT 2.pdf
SPRINT 1.pdf
Show all
Type here to search
30°C Haze
ENG
14:37
18-11-2022