# SPRINT – 1

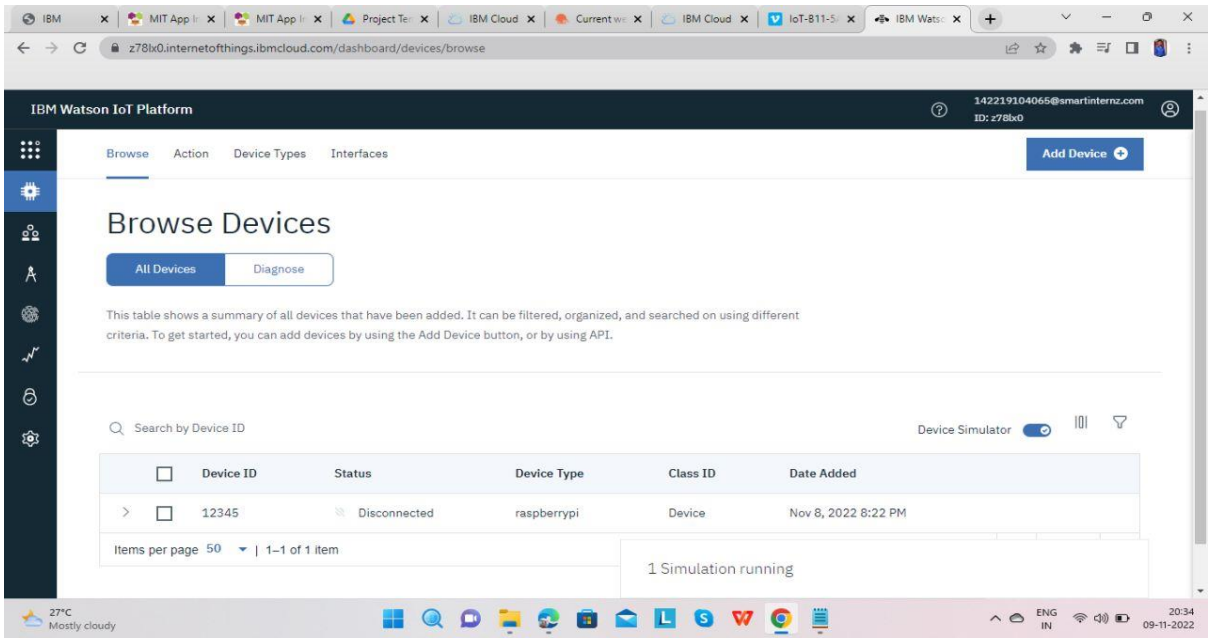
## PROJECT - Signs With Smart Connectivity For Better Road Safety

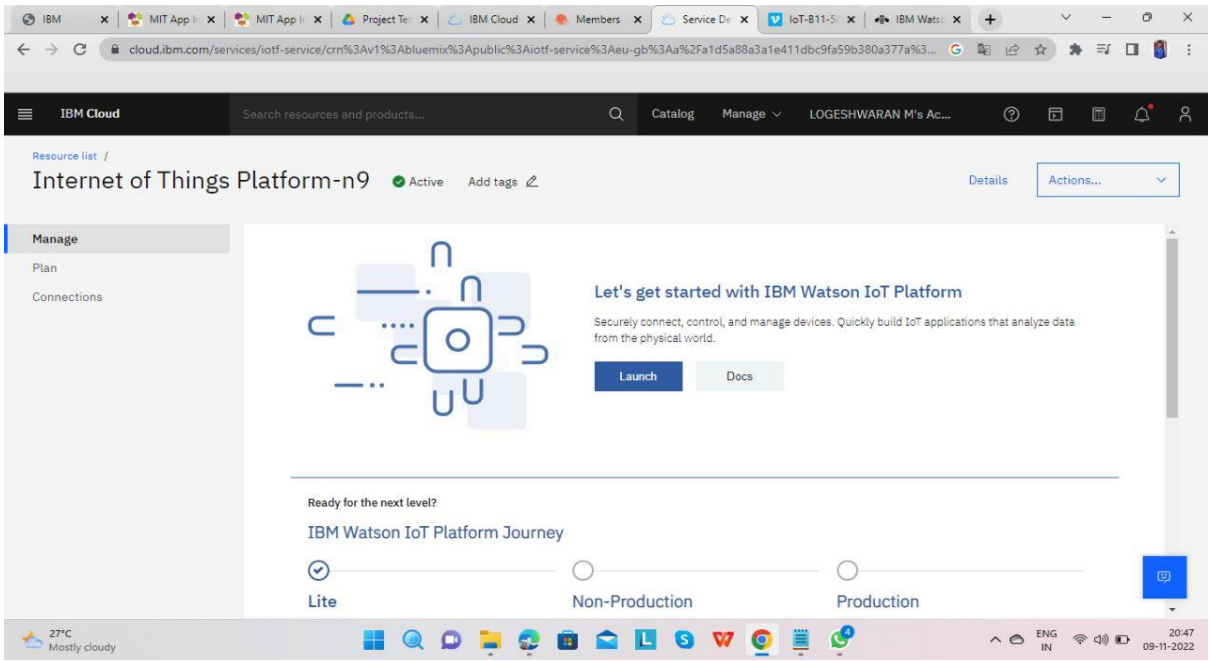
## TEAM ID - PNT2022TMID21659

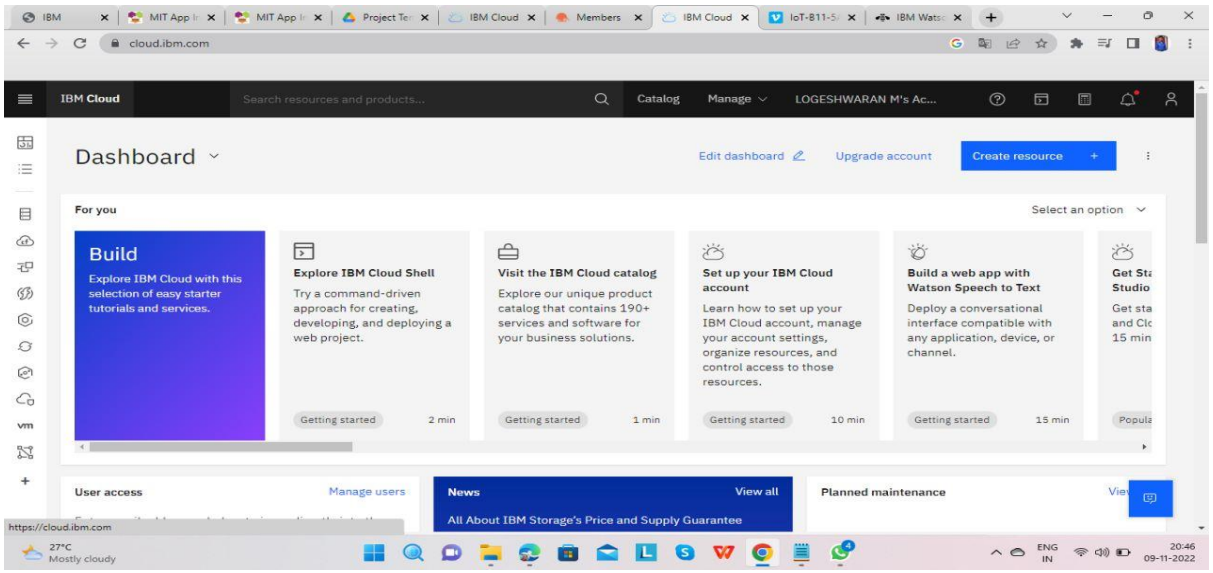
### GOALS :-

1. Creating and initializing accounts in required APIs and IBM cloud platform.
2. Write a Python program that outputs results given the inputs like weather and location.

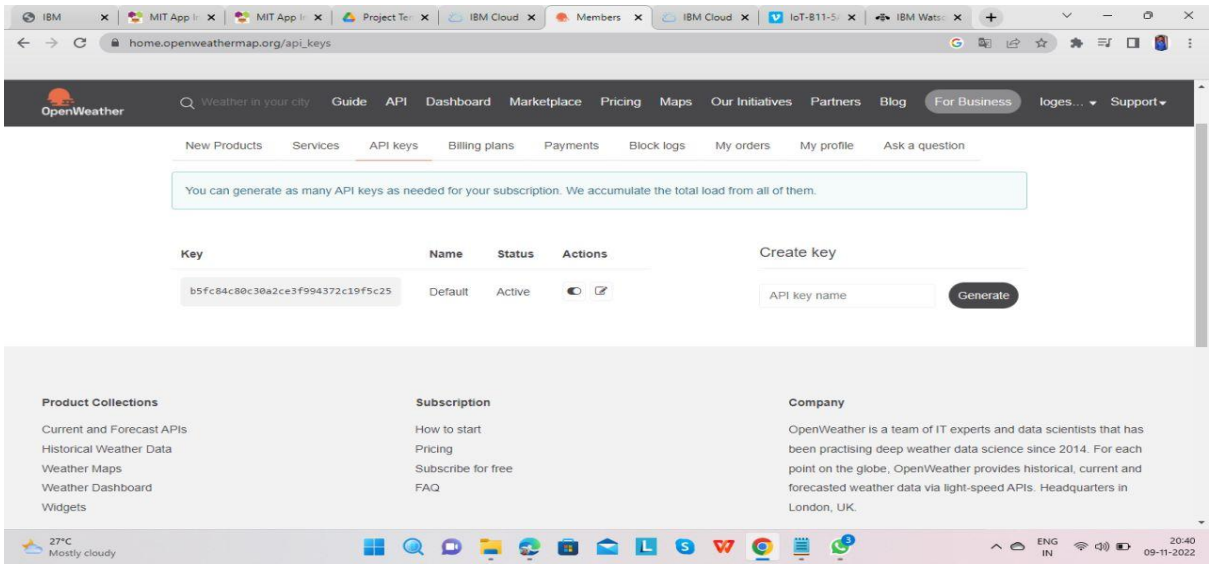
### IBM WATSON IOT PLATFORM



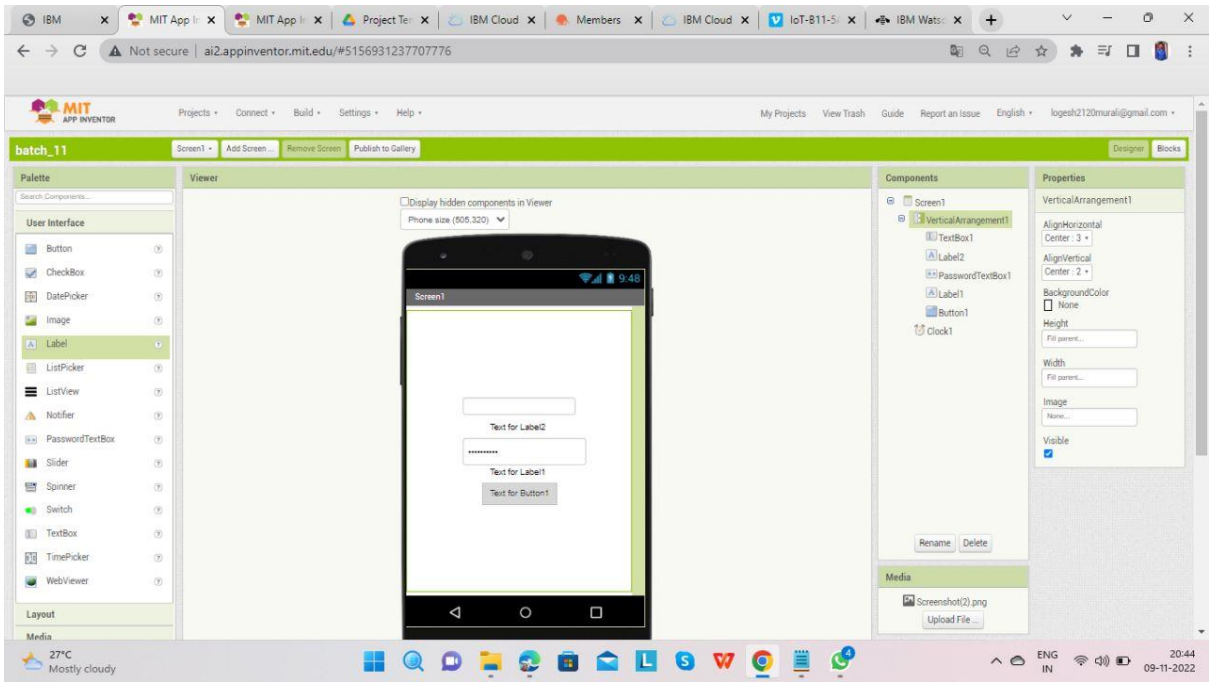






## OPENWEATHERMAP




## MIT APP INVENTOR



## Python Code for Weather Forecast

```
# Python code

import requests as reqs

def get(myLocation,APIKEY):
    apiURL =
f"https://api.openweathermap.org/data/2.5/weather?q={myLocation}&appid={APIKEY}"
    responseJSON = (reqs.get(apiURL)).json()
    returnObject = {
        "temperature" : responseJSON['main']['temp'] - 273.15,
        "weather" : [responseJSON['weather'][_]['main'].lower() for _ in
range(len(responseJSON['weather']))],
        "visibility" : responseJSON['visibility']/100, # visibility in percentage
where 10km is 100% and 0km is 0%
    }
    if("rain" in responseJSON):
        returnObject["rain"] = [responseJSON["rain"][key] for key in
responseJSON["rain"]]
    return(returnObject)
```