

Team ID	PNT2022TMID08724
Project Name	Signs with Smart Connectivity for Better Road Safety

The screenshot shows the Visual Studio Code interface with the file `brain.py` open. The Explorer sidebar on the left shows a project structure for `SPRINT1` with files `_pycache_`, `venv`, `brain.py`, `main.py`, `temp.py`, and `weather.py`. The `brain.py` file is selected and its content is displayed in the editor. The code defines a function `processConditions` that takes `myLocation`, `APIKEY`, and `localityInfo` as arguments. It uses the `weather` module to get weather data and checks for conditions like rain, visibility, and hospital proximity to determine a final speed limit and whether to honk. A syntax error is highlighted at line 22, column 26, indicating an 'invalid syntax' error in the `client.connect()` call. The terminal at the bottom shows the command `code = compile(f.read(), f.name, 'exec')` and the file path `File "e:\Sprint1\temp.py", line 22`.

```

1  import weather
2  from datetime import datetime as dt
3  # IMPORT SECTION ENDS
4  # UTILITY LOGIC SECTION STARTS
5  def processConditions(myLocation,APIKEY,localityInfo):
6      weatherData = weather.get(myLocation,APIKEY)
7      finalSpeed = localityInfo["usualSpeedLimit"] if "rain" not in weatherData else localityInfo["usualSpeedLimit"]
8      finalSpeed = finalSpeed if weatherData["visibility"]>35 else finalSpeed/2
9      if(localityInfo["hospitalsNearby"]):
10         # hzone of the hospital
11         doNotHonk = True
12     else:
13         if(localityInfo["schools"]["schoolZone"]==False):
14             # neither hospital zone nor school
15             doNotHonk = False
16         else:
17             # school zone
18             now = [dt.now().hour,dt.now().minute]
19             activeTime = [list(map(int,_.split(":"))) for _ in localityInfo["schools"]["activeTime"]]
20             doNotHonk = activeTime[0][0]<now[0]<activeTime[1][0] and activeTime[0][1]<now[1]<activeTime[1][1]
21         return({
22             "speed" : finalSpeed,
23             "doNotHonk" : doNotHonk
24         })
25

```

Problems: `SyntaxError: invalid syntax`
File "e:\Sprint1\temp.py", line 22
`client = wiotp.sdk.device.DeviceClient(config=myConfig, logHandlers=None)client.connect()`
^

Ln 8, Col 26 Spaces: 2 UTF-8 CRLF Python 3.8.5 (venv: venv)

The screenshot shows the Visual Studio Code interface with the file `main.py` open. The Explorer sidebar on the left shows the same project structure as the previous screenshot. The `main.py` file is selected and its content is displayed in the editor. The code imports the `brain` module and defines a `main` function that takes user input for location and API key, and a dictionary for locality information. It then calls `brain.processConditions` and prints the result. A syntax error is highlighted at line 17, column 1, indicating an 'invalid syntax' error in the `print` statement. The terminal at the bottom shows the command `code = compile(f.read(), f.name, 'exec')` and the file path `File "e:\Sprint1\temp.py", line 22`.

```

1  import brain
2  # IMPORT SECTION ENDS
3  # USER INPUT SECTION STARTS
4  myLocation = "Chennai,IN"
5  APIKEY = "a562b562af8f0332ccb817d9757c1bbe"
6  localityInfo = {
7      "schools" : {
8          "schoolZone" : True,
9          "activeTime" : ["7:00","17:30"] # schools active from 7 AM till 5:30 PM
10     },
11     "hospitalsNearby" : False,
12     "usualSpeedLimit" : 40 # in km/hr
13 }
14 # USER INPUT SECTION ENDS
15 # MICRO-CONTROLLER CODE STARTS
16 while True :
17     print(brain.processConditions(myLocation,APIKEY,localityInfo))
18

```

Problems: `SyntaxError: invalid syntax`
File "e:\Sprint1\temp.py", line 22
`client = wiotp.sdk.device.DeviceClient(config=myConfig, logHandlers=None)client.connect()`
^

Ln 1, Col 1 Spaces: 4 UTF-8 CRLF Python

```
File Edit Selection View Go Run Terminal Help
weather.py - Sprint1 - Visual Studio Code

EXPLORER
  SPRINT1
    > _pycache_
    > .env
    > brain.py
    > main.py
    > temp.py
    > weather.py

weather.py X main.py
1  port requests as reqs
2
3
4  f get(myLocation,APIKEY):
5      apiURL = "https://api.openweathermap.org/data/2.5/weather?q={myLocation}&appid={APIKEY}"
6      responseJSON = (reqs.get(apiURL)).json()
7      returnObject = {
8          "temperature" : responseJSON['main']['temp'] - 273.15,
9          "weather" : [responseJSON['weather'][_]['main'].lower() for _ in range(len(responseJSON['weather']))],
10         "visibility" : responseJSON['visibility']/100,
11     }
12     if("rain" in responseJSON):
13         returnObject["rain"] = [responseJSON["rain"][key] for key in responseJSON["rain"]]
14     return(returnObject)
15

PROBLEMS OUTPUT TERMINAL JUPYTER DEBUG CONSOLE
code = compile(f.read(), fname, 'exec')
File "e:\Sprint1\temp.py", line 22
client = wiotp.sdk.device.DeviceClient(config=myConfig, logHandlers=None)client.connect()
                                         ^
SyntaxError: invalid syntax
(venv) PS E:\Sprint1>
```

OUTPUT:

```
{
  "Temperature": 20.05,
}
```