

Sprint-1(1)

TEAM ID	PNT2022TMID38240
PROJECT NAME	Signs with smart connectivity for better road safety

PROGRAM:

```
#Python code
import weather
from datetime import datetime as dt
def
processConditions(myLocation,APIKEY,localityInfo):
weatherData = weather.get(myLocation,APIKEY)
finalSpeed = localityInfo["usualSpeedLimit"] if "rain" not in weatherData else
localityInfo["usualSpeedLimit"]/2
finalSpeed = finalSpeed if weatherData["visibility"]>35 else finalSpeed/2
if(localityInfo["hospitalsNearby"]):
# hospital zone
doNotHonk = True
else:
if(localityInfo["schools"]["schoolZone"]==False):
# neither school nor hospital zone
doNotHonk = False
else:
# school zone
now = [dt.now().hour,dt.now().minute]
activeTime = [list(map(int,_.split(":"))) for _ in
localityInfo["schools"]["activeTime"]]
doNotHonk = activeTime[0][0]<=now[0]<=activeTime[1][0] and
activeTime[0][1]<=now[1]<=activeTime[1][1]
return({
"speed" : finalSpeed,
"doNotHonk" : doNotHonk
})
[DEBUG ON]
```

[DEBUG OFF]