

Date	3 November 2022
Team ID	PNT2022TMID18146
Project Name	Project - Signs with Smart Connectivity for Better Road Safety
Maximum Marks	4 Marks

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]

```