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| Date | 8 November 2022 |
| Team ID | PNT2022TMID14925 |
| Project Name | Project – Signs with Smart Connectivity for Better Road Safety |

# Python code

# IMPORT SECTION STARTS

import weather

from datetime import datetime as dt

# IMPORT SECTION ENDS

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# UTILITY LOGIC SECTION STARTS

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

})

# UTILITY LOGIC SECTION ENDS