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| # Python code |
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|  | # IMPORT SECTION STARTS |
|  |  |
|  | import weather |
|  | from datetime import datetime as dt |
|  |  |
|  | # IMPORT SECTION ENDS |
|  | # ----------------------------------------------- |
|  | # 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 ENDSb |