PROG10004
ASSIGNMENT 3
UML MODEL

Application

N/A

+ start(self)

↑ USES

SheridanSystem

+ _noOfBuild: int
+ _buildList: list
+ _buildingNameQuery: str
+_buildingNumQuery: str

+ getNoOfBuild(self):int
+ getBuildList(self):list
+ setNoOfBuild(self, newNoOfBuild)
+ setBuildList(self, newBuildList)
+ setBuildingNumQuery(self, newBuildingNumQuery)
+ setBuildingNameQuery(self, newBuildingNameQuery)
+ run(self)

↑ HAS-A

Building

+ _noOfSensors: int
+ _listOfSensors: list
+ _buildName: str
+ _numDaysQuery: str

+ getNoOfSensors(self):int
+ getListOfSensors(self):list
+ getBuildName(self):str
+ setNoOfSensors(self, newNoOfSensors)
+ setListofSensors(self, newListofSensors)
+ setBuildName(self, newBuildName
+ setNumDaysQuery(self, newNumDaysQuery)
+ createSensors(self)
+ __str__(self):str

↑ HAS-A

IoTSensors

+ _posX: int
+ _posY: int
+ _noDays: int
+ _avgRead: int

+ getPosX(self):int
+ getPosY(self):int
+ getNoDays(self): int
+ getAvgRead(self): int
+ setPosX(self, newPosX)
+ setPosY(self, newPosY)
+ setNoDays(self, newNoDays)
+ setAvgRead(self, newAvgRead)
+ sensorPos(self)
+ sensorReadings(self)
+ computeAvg(self)

← IS- A

Co2Sensors

+ super().__init__():int
+ _co2Levels: list

+ getCo2Levels(self):list
+ setCo2Levels(self, newCo2Levels)
+ sensorPos(self)
+ sensorReadings(self, sensorNum)
+ computeAvg(self, listReadings)