

PROG10004

ASSIGNMENT 4

UML MODEL

Application
<ul style="list-style-type: none"> + <code>_listSensors</code>: list + <code>_dictSensors</code>: dict + <code>_numSensors</code>: int + <code>_source</code>: str + <code>_destination</code>: str + <code>_path</code>: list + <code>_prevSource</code>: str
<ul style="list-style-type: none"> + <code>__init__(self)</code> + <code>getListSensors(self)</code>: list + <code>getNumSensors(self)</code>: int + <code>getDictSensors(self)</code>: dict + <code>getSource(self)</code>: str + <code>getDestination(self)</code>: str + <code>getPath(self)</code>: list + <code>getPreviousSource(self)</code>: str + <code>setListSensors(self, newListSensors)</code> + <code>setNumSensors(self, newNumSensors)</code> + <code>setDictSensors(self, newDictSensors)</code> + <code>setSource(self, newSource)</code> + <code>setDestination(self, newDestination)</code> + <code>setPath(self, newPath)</code> + <code>setPrevSource(self, newPrevSource)</code> + <code>addToPath(self, node)</code> + <code>removeLastNodeFromPath(self)</code> + <code>askNumSensors(self)</code> + <code>askSensorID(self, type): str</code> + <code>createSensors(self)</code> + <code>convrtToDictionary(self, listSensors)</code> + <code>getSourceAndDestination(self)</code> + <code>findNodeMaxDistance(self, prevSource, key, dict)</code> + <code>findPath(self, dictSensors, source, destination, path)</code>

USES

WirelessNetworks
<ul style="list-style-type: none"> + <code>ADHOC_Mode</code>: str + <code>BRAND_NAME</code>: str + <code>_id</code>: int + <code>_oxygenLevel</code>: int + <code>_temperature</code>: float + <code>_neighborsList</code>: list
<ul style="list-style-type: none"> + <code>__init__(self)</code> + <code>getID(self)</code>: int + <code>getOxygenLevel(self)</code>: int + <code>getTemperature(self)</code>: float + <code>getNeighborsList(self)</code>: list + <code>setId(self, newId)</code> + <code>setOxygenLevel(self, newOxygenLevel)</code> + <code>setTemperature(self, newTemperature)</code> + <code>setNeighborsList(self, newNeighborsList)</code> + <code>askSensorID(self)</code> + <code>getNeighbors(self)</code>: int + <code>getNeighborOfSensor(self, sensorID): str</code> + <code>getDistance(self, sensorID): int</code> + <code>getOxygen(self)</code> + <code>getTemp(self)</code> + <code>greetMessage(self)</code>