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Created Message Broker: central Created Message Broker: external
Created Environment: productionFloor Created Environment: serviceRoom Created Environment: warehouse
Created Component of threedPrinter: HeatedPrintBed Created Component of threedPrinter: Extrudor Created Node: threedPrinter Created Component of Robot: RoboticArm Created Component of Robot: InternalTemperature Created Node: Robot Created Component of CentralClimateControl: Fan Created Component of CentralClimateControl: TemperatureRegulator Created Node: CentralClimateControl Created Component of Scaffolding: Scanner Created Node: Scaffolding Created Component of ConveyorBelt: Motor Created Node: ConveyorBelt
Created Controller: C1 Created Controller: C2
ThreedPrinter added new Subscription on [temp, production] to central ThreedPrinter added new Publication on [temp] to central
<pre>ThreedPrinter added new Publication on [production] to central Robot added new Subscription on [temp, logistics] to central Robot added new Publication on [temp, logistics] to</pre>
central

CentralClimateControl added new Subscription on [temp] to central
CentralClimateControl added new Publication on [temp] to central
Scaffolding added new Publication on [logistics] to central
ConveyorBelt added new Subscription on [logistics] to
central C1 added new Subscription on [temp, production,
<pre>logistics] to central</pre>
C2 added new Publication on [temp] to external
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i No new message from c1
i No new message from c2
<pre> Sensor timed function execution: internalTemperature -> getTemperature() returning type INT central: New Message added to queue temp</pre>
<pre>Sensor timed function execution: scanner -> getContent() returning type STRING</pre>
central: New Message added to queue logistics
<pre>central queues info:</pre>
<pre>external queues info: > WeatherQueue size: 0 > TempQueue size: 0 external clearing queuesweatherQueue cleared,tempQueue</pre>

cleared, external clearing completed
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Publishing message to MessageBroker central central: New Message added to queue temp Publishing message to MessageBroker external external: New Message added to queue temp
Actuator called function execution: heatedPrintBed -> setTemperature() returning type NULL central: New Message added to queue temp Sensor timed function execution: scanner -> getContent() returning type STRING central: New Message added to queue logistics
<pre>central queues info:</pre>
<pre>external queues info: > WeatherQueue size: 0 > TempQueue size: 1 external clearing queuesweatherQueue cleared, tempQueue cleared, external clearing completed</pre>
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Publishing message to MessageBroker central central: New Message added to queue temp No new message from c2

<pre>Actuator called function execution: heatedPrintBed -> setTemperature() returning type NULL</pre>
central: New Message added to queue temp
<pre>Sensor timed function execution: scanner -> getContent() returning type STRING central: New Message added to queue logistics</pre>
<pre>central queues info:</pre>
<pre>external queues info: > WeatherQueue size: 0 > TempQueue size: 0 external clearing queuesweatherQueue cleared,tempQueue cleared,external clearing completed</pre>
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Publishing message to MessageBroker central central: New Message added to queue production No new message from c2
Actuator called function execution: extrudor -> startPrint() returning type NULL central: New Message added to queue production
<pre>Sensor timed function execution: scanner -></pre>
<pre>getContent() returning type STRING central: New Message added to queue logistics</pre>
<pre>central queues info:</pre>

central clearing queues ...tempQueue cleared,productionQueue cleared,logisticsQueue cleared,central clearing completed external queues info: > WeatherOueue size: 0 > TempQueue size: 0 external clearing queues ...weatherQueue cleared,tempQueue cleared, external clearing completed ______ ========= Step 05 ______ 📤 Publishing message to MessageBroker central central: New Message added to queue temp No new message from c2 Sensor timed function execution: internalTemperature -> getTemperature() returning type INT central: New Message added to queue temp Actuator called function execution: fan -> turnOn() returning type NULL central: New Message added to queue temp Sensor timed function execution: scanner -> getContent() returning type STRING central: New Message added to queue logistics central queues info: > TempQueue size: 3 > ProductionQueue size: 0 > LogisticsOueue size: 1 central clearing queues ...tempQueue cleared, productionQueue cleared, logisticsQueue cleared, central clearing completed

external queues info:

- > WeatherQueue size: 0
- > TempQueue size: 0

external clearing queues ...weatherQueue cleared,tempQueue cleared,external clearing completed

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Publishing message to MessageBroker central central: New Message added to queue temp No new message from c2
Actuator called function execution: temperatureRegulator -> setTemperature() returning type NULL central: New Message added to queue temp Sensor timed function execution: scanner -> getContent() returning type STRING central: New Message added to queue logistics
<pre>central queues info:</pre>
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Actuator called function execution: extrudor -> getRemainingPrintDuration() returning type INT

central: New Message added to queue production Sensor timed function execution: scanner -> getContent() returning type STRING central: New Message added to queue logistics central queues info: > TempQueue size: 0 > ProductionQueue size: 2 > LogisticsQueue size: 1 central clearing queues ...tempQueue cleared,productionQueue cleared,logisticsQueue cleared,central clearing completed external queues info: > WeatherOueue size: 0 > TempQueue size: 0 external clearing queues ...weatherQueue cleared, tempQueue cleared, external clearing completed ______ ======== Step 08 _____ No new message from c1 No new message from c2 Sensor timed function execution: scanner -> getContent() returning type STRING central: New Message added to queue logistics _____ central queues info: > TempQueue size: 0 > ProductionQueue size: 0 > LogisticsQueue size: 1 central clearing queues ...tempQueue cleared, productionQueue cleared, logisticsQueue cleared, central clearing completed external queues info: > WeatherOueue size: 0 > TempQueue size: 0 external clearing queues ...weatherQueue cleared,tempQueue

cleared, external clearing completed
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Publishing message to MessageBroker central central: New Message added to queue production No new message from c2
Actuator called function execution: extrudor -> getRemainingPrintDuration() returning type INT central: New Message added to queue production Sensor timed function execution: internalTemperature -> getTemperature() returning type INT central: New Message added to queue temp Sensor timed function execution: scanner -> getContent() returning type STRING central: New Message added to queue logistics
<pre>central queues info:</pre>
<pre>external queues info: > WeatherQueue size: 0 > TempQueue size: 0 external clearing queuesweatherQueue cleared,tempQueue cleared,external clearing completed</pre>
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<pre>i No new message from c1 i No new message from c2</pre>

<pre>Sensor timed function execution: scanner -> getContent() returning type STRING central: New Message added to queue logistics</pre>
<pre>central queues info:</pre>
<pre>external queues info: > WeatherQueue size: 0 > TempQueue size: 0 external clearing queuesweatherQueue cleared,tempQueue</pre>
cleared, external clearing completed
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'
Publishing message to MessageBroker central central: New Message added to queue temp No new message from c2
<pre>Actuator called function execution: fan -> turnOff() returning type NULL</pre>
central: 📩 New Message added to queue temp
Sensor timed function execution: scanner ->
getContent() returning type STRING
central: New Message added to queue logistics
<pre>central queues info:</pre>

<pre>external queues info:</pre>
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Publishing message to MessageBroker central central: New Message added to queue temp No new message from c2
Actuator called function execution: temperatureRegulator -> setTemperature() returning type NULL central: New Message added to queue temp Sensor timed function execution: scanner -> getContent() returning type STRING central: New Message added to queue logistics
central queues info: > TempQueue size: 2 > ProductionQueue size: 0 > LogisticsQueue size: 1 central clearing queuestempQueue cleared,productionQueue cleared,logisticsQueue cleared,central clearing completed external queues info: > WeatherQueue size: 0 > TempQueue size: 0 external clearing queuesweatherQueue cleared,tempQueue cleared,external clearing completed
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■ No new message from c1

No new message from c2
Sensor timed function execution: internalTemperature -> getTemperature() returning type INT central: New Message added to queue temp Sensor timed function execution: scanner -> getContent() returning type STRING central: New Message added to queue logistics
<pre>central queues info:</pre>
<pre>external queues info: > WeatherQueue size: 0 > TempQueue size: 0 external clearing queuesweatherQueue cleared,tempQueue cleared,external clearing completed</pre>
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Publishing message to MessageBroker central central: New Message added to queue logistics No new message from c2
Actuator called function execution: roboticArm -> grab() returning type NULL central: New Message added to queue logistics Sensor timed function execution: scanner -> getContent() returning type STRING central: New Message added to queue logistics

> ProductionQueue size: 0 > LogisticsOueue size: 3 central clearing queues ...tempQueue cleared, productionQueue cleared, logisticsQueue cleared, central clearing completed external queues info: > WeatherOueue size: 0 > TempQueue size: 0 external clearing queues ...weatherQueue cleared,tempQueue cleared, external clearing completed ______ ======== Step 15 _____ 📤 Publishing message to MessageBroker central central: New Message added to queue temp No new message from c2 Sensor timed function execution: internalTemperature -> getTemperature() returning type INT central: New Message added to gueue temp Sensor timed function execution: scanner -> getContent() returning type STRING central: New Message added to queue logistics central queues info: > TempQueue size: 2 > ProductionQueue size: 0 > LogisticsOueue size: 1 central clearing queues ...tempQueue cleared, productionQueue cleared, logisticsQueue cleared, central clearing completed external queues info: > WeatherOueue size: 0 > TempQueue size: 0 external clearing queues ...weatherQueue cleared,tempQueue cleared, external clearing completed

> TempQueue size: 0

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Publishing message to MessageBroker central central: New Message added to queue temp No new message from c2
Actuator called function execution: temperatureRegulator -> setTemperature() returning type NULL central: New Message added to queue temp Sensor timed function execution: scanner -> getContent() returning type STRING central: New Message added to queue logistics
<pre>central queues info:</pre>
<pre>external queues info:</pre>
======================================
i No new message from c1 i No new message from c2
Sensor timed function execution: internalTemperature -> getTemperature() returning type INT central: New Message added to queue temp Sensor timed function execution: scanner ->

getContent() returning type STRING central: New Message added to queue logistics central queues info: > TempQueue size: 1 > ProductionQueue size: 0 > LogisticsQueue size: 1 central clearing queues ...tempQueue cleared, productionQueue cleared, logisticsQueue cleared, central clearing completed external queues info: > WeatherOueue size: 0 > TempQueue size: 0 external clearing queues ...weatherQueue cleared,tempQueue cleared, external clearing completed ______ ------ Step 18 📤 Publishing message to MessageBroker central central: New Message added to queue logistics No new message from c2 Sensor timed function execution: scanner -> getContent() returning type STRING central: New Message added to queue logistics Actuator called function execution: motor -> setSpeed() returning type NULL central queues info: > TempQueue size: 0 > ProductionQueue size: 0 > LogisticsQueue size: 2 central clearing queues ...tempQueue cleared, productionQueue cleared, logisticsQueue cleared, central clearing completed external queues info: > WeatherOueue size: 0 > TempQueue size: 0

cleared, external clearing completed
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Publishing message to MessageBroker central central: New Message added to queue logistics No new message from c2
Sensor timed function execution: scanner -> getContent() returning type STRING central: New Message added to queue logistics Actuator called function execution: motor -> setSpeed() returning type NULL
<pre>central queues info:</pre>
<pre>external queues info: > WeatherQueue size: 0 > TempQueue size: 0 external clearing queuesweatherQueue cleared,tempQueue cleared,external clearing completed</pre>
======================================
i No new message from c1 i No new message from c2
Sensor timed function execution: scanner -> getContent() returning type STRING

central: New Message added to queue logistics
<pre>central queues info:</pre>
<pre>external queues info: > WeatherQueue size: 0 > TempQueue size: 0 external clearing queuesweatherQueue cleared,tempQueue cleared,external clearing completed</pre>
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Publishing message to MessageBroker central central: New Message added to queue logistics No new message from c2
Sensor timed function execution: internalTemperature -> getTemperature() returning type INT central: New Message added to queue temp Sensor timed function execution: scanner -> getContent() returning type STRING central: New Message added to queue logistics Actuator called function execution: motor -> setSpeed() returning type NULL
<pre>central queues info:</pre>

<pre>external queues info: > WeatherQueue size: 0 > TempQueue size: 0 external clearing queuesweatherQueue cleared,tempQueue</pre>
cleared, external clearing completed
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Publishing message to MessageBroker central central: New Message added to queue logistics No new message from c2
Sensor timed function execution: scanner -> getContent() returning type STRING central: New Message added to queue logistics
<pre>central queues info:</pre>
<pre>external queues info: > WeatherQueue size: 0 > TempQueue size: 0 external clearing queuesweatherQueue cleared,tempQueue cleared,external clearing completed</pre>
======================================
i No new message from c1 i No new message from c2
<pre>Sensor timed function execution: scanner -> getContent() returning type STRING</pre>

central: New Message added to queue logistics
<pre>central queues info:</pre>
<pre>external queues info: > WeatherQueue size: 0 > TempQueue size: 0 external clearing queuesweatherQueue cleared,tempQueue cleared,external clearing completed</pre>
