States

* State 1: Initial state (Water and Flour not detected)
* State 2: Water detected
* State 3: Flour detected
* State 4: Bread making in progress
* State 5: Bread done

Transitions:

* Initial state to State 2: Water Sensor detects water
* State 2 to State 3: Flour Sensor detects flour
* State 3 to State 4: Machine Controller receives signals from both Water and Flour Sensors
* State 4 to State 5: Bread making is completed
* State 5 back to State 1: Machine is ready for a new bread making cycle, values reset

Water:=True

Water detected  
S2

Ready  
S1

Water:=True / Baking\_request

Timer<20

Flour detected  
S3

Flour:=True

Flour:= True / Baking\_request

Baking  
S4

Water:= False  
Flour:= False

Done  
S5

Timer:=20