sl no	Inputs	Outputs	Results
1	Gas:0 Temperature:29.3 Flame:45 Flow:false	Fan on:false Status logged:done	Sent
2	Gas:35 Temperature:29.3 Flame:78 Flow:true	Fan on:true Status logged:done	Sent
3	Gas:218 Temperature:59.30 Flame:369 Flow:true	Fan on:true Status logged:done	Sent
4	Gas:503 Temperature:59.30 Flame:531 Flow:false	Fan on:true Status logged:done	Sent
5	Gas:437 Temperature:59.30 Flame:693 Flow:false	Fan on:true Status logged:done	Sent
6	Gas:722 Temperature:59.30 Flame:855 Flow:false	Fan on:true Status logged:done	Sent
7	Gas:941 Temperature:59.30 Flame:155 Flow:false	Fan on:true Status logged:done	Sent
8	Gas:226 Temperature:27.90 Flame:317 Flow:false	Fan on:true Status logged:done	Sent
9	Gas:2 Temperature:27.90 Flame:479 Flow:true	Fan on:false Status logged:done	Sent
10	Gas:444 Temperature:27.90 Flame:641 Flow:true	Fan on:true Status logged:done	Sent
11	Gas:1 Temperature:27.80	Fan on:false	Sent

	Flame:803 Flow:false	Status logged:done	
12	Gas:730 Temperature:27.90 Flame:786 Flow:false	Fan on:true Status logged:done	Sent
13	Gas:15 Temperature:38.90 Flame:965 Flow:false	Fan on:false Status logged:done	Sent
14	Gas:948 Temperature:38.90 Flame:103 Flow:false	Fan on:true Status logged:done	Sent
15	Gas:234 Temperature:38.90 Flame:256 Flow:true	Fan on:true Status logged:done	Sent
16	Gas:2 Temperature:66.79 Flame:536 Flow:true	Fan on:false Status logged:done	Sent
17	Gas:519 Temperature:38.90 Flame:457 Flow:1	Fan on:true Status logged:done	Sent
18	Gas:804 Temperature:72.00 Flame:589 Flow:true	Fan on:true Status logged:done	Sent
19	Gas:738 Temperature:72.00 Flame:751 Flow:false	Fan on:true Status logged:done	Sent
20	Gas:23 Temperature:72.00 Flame:913 Flow:true	Fan on:false Status logged:done	Sent
21	Gas:308 Temperature:72.00 Flame:51 Flow:false	Fan on:true Status logged:done	Sent
22	Gas:241 Temperature:80.00	Fan on:true	Sent

	Flame:213 Flow:false	Status logged:done	
23	Gas:527 Temperature:80.00 Flame:375 Flow:false	Fan on:true Status logged:done	Sent
24	Gas:812 Temperature:80.00 Flame:537 Flow:true	Fan on:true Status logged:done	Sent
25	Gas:745 Temperature:80.00 Flame:699 Flow:true	Fan on:true Status logged:done	Sent
26	Gas:535 Temperature:80.00 Flame:323 Flow:true	Fan on:true Status logged:done	Sent
27	Gas:820 Temperature:26.20 Flame:485 Flow:true	Fan on:true Status logged:done	Sent
28	Gas:105 Temperature:26.20 Flame:647 Flow:false	Fan on:true Status logged:done	Sent
29	Gas:38 Temperature:36.40 Flame:809 Flow:true	Fan on:false Status logged:done	Sent
30	Gas:324 Temperature:36.40 Flame:971 Flow:true	Fan on:true Status logged:done	Sent
31	Gas:609 Temperature:36.40 Flame:109 Flow:false	Fan on:true Status logged:done	Sent
32	Gas:910 Temperature:50.80 Flame:167 Flow:false	Fan on:true Status logged:done	Sent
33	Gas:843 Temperature:50.80	Fan on:true	Sent

	Flame:329 Flow:true	Status logged:done	
34	Gas:129 Temperature:64.40 Flame:491 Flow:false	Fan on:true Status logged:done	Sent
35	Gas:414 Temperature:64.40 Flame:653 Flow:true	Fan on:true Status logged:done	Sent
36	Gas:347 Temperature:64.40 Flame:815 Flow:true	Fan on:true Status logged:done	Sent
37	Gas:632 Temperature:64.40 Flame:977 Flow:true	Fan on:true Status logged:done	Sent
38	Gas:851 Temperature:64.40 Flame:277 Flow:false	Fan on:true Status logged:done	Sent
39	Gas:152 Temperature:57.60 Flame:335 Flow:true	Fan on:true Status logged:done	Sent
40	Gas:437 Temperature:57.60 Flame:497 Flow:0	Fan on:true Status logged:done	Sent

Note :
- At initial stages 10 test cases were tested some of them failed then bugs were fixed   then the number of testcases increased to improve the quality . Then the increment of test cases was stopped as scenarios got redundant.
- For some test cases even if the values are high enough the sprinklers won't turn on 'cause those are fake fire/false reading.