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| GJU_logo_arabic | GERMAN JORDANIAN UNIVERSITY  SCHOOL OF APPLIED TECHNICAL SCIENCES (SATS)  DEPARTMENT OF MECHATRONICS ENGINEERING |
|  | Mechatronics System Design |

Read this example: (5min reading)

Question:

You are an engineer designing a production line for vacuum sealed tomato sauce. You are tasked to design and develop a counter system to be installed at the end of the production process. This system should count the sound and the defective tomato sauce jars exiting the conveyor belt.

You can tell if the jar is defective if you hear pop or clapping sound. This sound is an indicator that the vacuum seal was broken or not installed successfully on the Jar.

Use myrio1900 and any sensor you see fit to design the counter system. The sound and defective product counter should be shown on a VI no the PC.

\*\*\* Follow the V-Model and draw state machine that represents your Algorithm

Bonus:

Show the two counters on an actual LCD.

Reminder: To open any VI example, you have to: 1- Open the LABVIEW Project file (.lvproj)

2- Then you can open the desired VI (LabVIEW Instrument (.vi)) from the within You have 90mins to finish your project.

You can use the documentation and the attached examples as you wish.

Good luck!!