SERVERLESS IOT DATA PROCESSING

- Home automation can lead to significant energy savings by optimizing lighting, heating, and cooling systems based on occupancy and environmental conditions.

- IoT can be used to monitor air quality, humidity, and temperature to create a healthier living environment, especially for individuals with respiratory conditions.

- Integration with smoke detectors, carbon monoxide detectors, and water leak sensors for early detection of potential hazards.

- Serverless IoT Dashboard: Create a serverless web-based dashboard that allows users to monitor and control IoT devices in real-time. Use serverless functions to process incoming data and display it in an intuitive and responsive interface.

- Automated Data Cleanup: Develop serverless functions to clean and preprocess incoming IoT data, handling missing values, outliers, and data format conversions to ensure data quality.

- Serverless IoT Analytics: Build serverless functions for basic analytics tasks, such as calculating averages, sums, or trends from IoT sensor data. This can provide users with insights into their IoT devices' performance.

- Alerts and Notifications: Implement serverless functions to send notifications or alerts when specific conditions are met, such as temperature thresholds in industrial IoT or security breaches in home automation.

```
if motion sensed by the sensor then
    Turned  ON appliance
Else
    Keep sensing

end if
    if MQ5 gas value  greater than or equals to 1050 then
          Start Alarm

     else
          Keep sensing

     end if
          if electromagnetic  door sensor  Lost the  line of sight connection  for sec then
               Start Alarm

          else
               Keep checking

     end if
          if temperature  less than  or equals  to 24°C then
               Turned  OFF Fan

          else
                if temperature  greater than 24°C then
                       Turned  ON Fan

                   end if
       end if
```