

**Objective:** To write a logic block for following problem statement and provide expected output data

**Data:** Refer to the attached excel for raw data of all users. Assume that every entry from excel is one data point and every data point is received as an input to the function at a time = sts column value. So, while reading the file, you need to iterate over the entries after sorting the data on the sts column

**Problem Statement:**

1. Create a local Redis cache server.
2. Read the given excel as per instructions given above
3. Write a code that stores the latest data (as per time stamp) of device against each device ID in the redis cache
4. Keep the raw data accessible by hosting it in some storage on cloud or on local server.
5. By querying data stored in step 2 & 3, create following API endpoints (in the framework of your choice):
  1. An API that takes device ID and returns device's latest information in response.
  2. An API that takes device ID and returns start location & end location for that device. Location should be (lat, lon) tuple.
  3. An API that takes in device ID, start time & end time and returns all the location points as list of latitude, longitude & time stamp
6. Host these endpoints on cloud

**Output Data:**

1. Share entire data stored in Redis cache.
2. Share the URL for all API endpoints along with request structure
3. Share the project code link

**Note:** You can make any other assumptions that you might feel are necessary as long as you state them clearly in your response