**Project Name:** Experimential project, generating data insights on IBKR data

**Project Overview:** Output 5 values based on the specified data set, date and time.

The project to be hosted on Replit.

IBKR API link: <https://interactivebrokers.github.io/tws-api/historical_time_and_sales.html> (use midpoint for type of data).

**User input:**

1. Ticker
2. Start Date dd/mm/year
3. End Date dd/mm/year
4. Start Time hh:mm:ss
5. End time hh:mm:ss

**Output:**

1. Average change
2. Max change
3. Min change
4. 90th percentile change
5. 10th percentile change

Use numpy for the output calculations: <https://numpy.org/doc/stable/reference/generated/numpy.percentile.html>  
  
  
Example:

1. Ticker : ES
2. Start Date : 15/12/2022
3. End Date: 21/12/2022
4. Start Time: 13:30:00
5. End time : 14:00:00  
     
     
   The system will take data in the interval between 1.30-2pm for everyday between 15-21st of December and will show outputs.