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README - Sensor Model - Main
Guidance, Navigation and Controls Subsystem

se_main()

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Reviwed by: NOT YET REVIEWED - Aruja Khanna, KT Prajwal Pratiksh
Description:
This is the Main Script for the Sensor Model. This can be converted to a Function in the future as no Input / Output is involved.
Formula & References:
The overall structure is based on:
Development of star image simulator for star sensor algorithm validation [1]
Input files/ Files Accessed:
The following Functions/ Scripts are called:

1. **se_PP_1_load_constants.m**: (Script) - Load all files from `Sensor_Model/Inputs/`

2. **se_PP_2_catalogue.m**: (Script) - Preprocesses the SSP SKY2000 Catalogue.

3. **se_PR_Main.m**: (Function) - The Main Function for Processing Block

Output:
The Image Matrix and the Table containing all relevant data fields is stored in `/Sensor_Model/Outputs/`

References

[1] N S Ardi et al. "Development of star image simulator for star sensor algorithm validation". In: *Journal of Physics: Conference Series* 1130 (Nov. 2018), p. 012020. DOI: 10.1088/1742-6596/1130/1/012020. URL: https://doi.org/10.1088%2F1742-6596%2F1130%2F1%2F012020.