

# RO-1.0X

## Assignment 13

### Feature Detection

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#### Problem Statement:

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- **Given file is**
    - “assignment\_13.jpg”,
  - **Tasks**
    - Implement Shi-Tomasi Corner Detection Algorithm from scratch.
  - **To Submit**
    - “output\_shi\_tomasi.jpg”
    - “shi\_tomasi.py”, “main.py”
      - Create a class based implementation in “shi\_tomasi.py” and call each operation in “main.py”
    - “threshold.txt”
      - The threshold value, that has been chosen to consider a point as a corner point.
    - “output\_shi\_tomasi\_cv.jpg”
      - Use OpenCV’s harris corner detection function and compare your result with the same.
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- To submit the assignment put both the files in a folder named **username**, where **username** is your user name with which you signed up at DeepEigen.
    - Submit **username.zip** file