

## Read Me - Task 1: Sensing

The objective of this task is to help understand thoroughly the use of image processing to interpret the given image to find useful information.

The task is divided into 2 sections.

### Section A: Theory

Please find the *Template\_Task1\_Sensing.doc* file in the folder *Task1\_Theory*. This file contains questions pertaining to image processing. Teams will be expected to learn the relevant content using the video tutorials and the documentation provided on the DVD.

- The first section contains questions that the teams are expected to answer in the requested format as explained in the file *Template\_Task1\_Sensing.doc*
- The second section contains questions that require the team to modify the code snippet in the file *Template\_Task1\_Sensing.doc* to implement the required function and provide a description of how the code works

### Section B: Practice

Please find the *Task1\_Description.pdf* file in the folder *Task1\_Practice*. This file contains a description of the task and the problem statement.

- The teams are expected to understand the problem, and use image processing to find a solution
- The solution must be in the form of a Python script file (.py). The teams must use the provided *code.py* and modify it to solve the proposed problem

### Submission Instructions

The teams are expected to upload the solutions to Section A and Section B as follows:

- Section A – Please save the modified *Task1\_Template.doc* file as **#TeamID\_Sensing.pdf**
- Section B – Please save the modified *code.py* file as **#TeamID\_Sensing.py**

- Then put the above both file into **#TeamID\_Sensing** folder and compress into **zip format**. Upload the **#TeamID\_Sensing.zip** at the “Upload” tab on the Portal Interface
- The deadline for uploading the solution to Task 1 is **Midnight of, 8<sup>TH</sup> December 2014**

**Warning:**

- **IMPORTANT:** The document you submit should be in YOUR WORDS. To avoid any copyright violations, you must NOT copy phrases directly from manuals or web.
- The teams can upload the document only once on the upload page.
- The team should NOT mail or upload the document anywhere else except on the portal.
- Teams failing to submit the document by the deadline will lose the marks for this task.
- e-Yantra WILL NOT entertain any request for extension of deadline for uploading the task.