

## Read Me - Task 1: Image Processing

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\_Image\_Processing.docx* 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\_Image\_Processing.docx*.
- The second section contains questions that require the team to modify the code snippet in the file *Template\_Task1\_Image\_Processing.docx* 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 *task1\_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 *Template\_Task1\_Image\_Processing.docx* file as **#TeamID\_Image\_Processing.pdf**
- Section B – Please save the modified *task1\_code.py* file as **#TeamID\_Image\_Processing.py**

- Then put the above both file into **#TeamID\_ Image\_Processing** folder and compress into **zip format**. Upload the **#TeamID\_ Image\_Processing.zip** at the “Upload” tab on the Portal Interface
- The deadline for uploading the solution to Task 1 is 29<sup>th</sup> Nov. 2015.

**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.