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**LAB10: Representation and Description**

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**Objective**

Upon completion of this lab, you will be able to write the program in MATLAB to classify the different shapes in the image.

**Exercises**

Note that you should create your own function in MATLAB as MATLAB User-defined function. It means that you cannot call MATLAB built-in function, which generates output in the same manner as your own function. You can use the images provided in the folder \Google Drive\EGCO486\_60-1\LABs\LAB10 for your exercises.

1) Classify the different shapes

- 1.1 Write the program in MATLAB to classify the different shapes in the image. Take the following program name: ProShape.m. When this program is used with the image “shape.bmp” the result as shown in Figure 1.

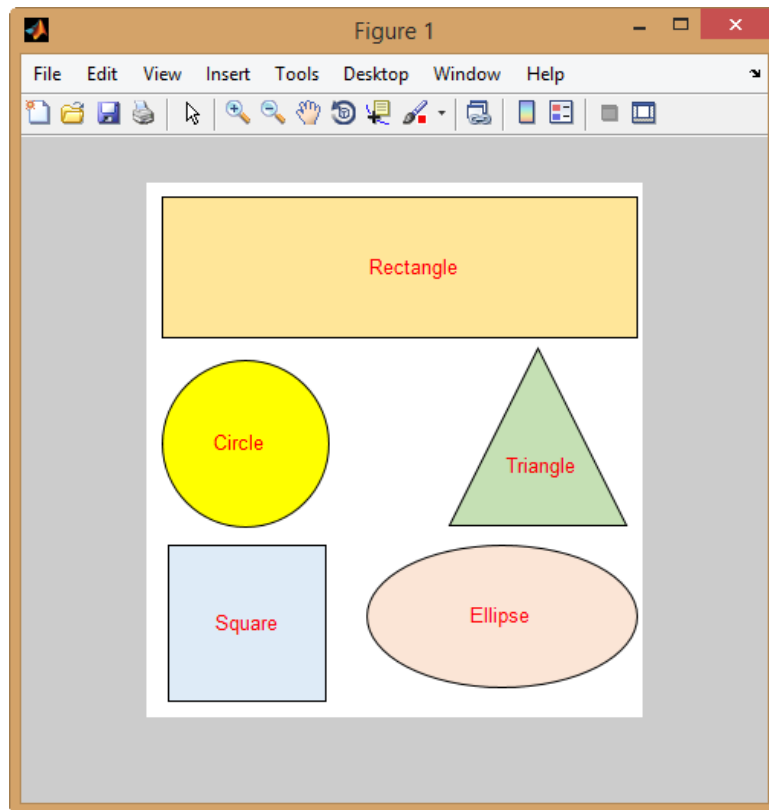


Figure 1: The result of classifying the different shapes on the image.

**What you need to submit:**

Prepare a zip file that contains all matlab files (m-file extension). Email the zip file to the account **send2narit@hotmail.com** with the following subject line: **EGCO486\_LABxx\_yyy**, which xx is a number of LAB and yyy is the last 3 digits of the student identification number. Your email should reach us before Tuesday 11:59 PM.