$\begin{array}{c} INTRODUCTION\ TO\ DIGITAL\ IMAGE\\ PROCESSING \end{array}$

Submission Instructions

The following instructions are mandatory and will be checked and graded by the course staff. Failing to follow these instructions **will** reduce points from you grade.

The assignment is to be done in Python and submitted to the course moodle page in the form of a *.zip (not RAR) containing *Assignment?.ipynb*-the Colab notebook (where '?' represents the exercise number) and PDF file - convert the IPYNB to PDF (you can use this website for example). Both the PDF and ZIP file names should be the initials and ID of both of the team members ex. 'TB-1234567_RS-7654321.pdf' and 'TB-1234567_RS-7654321.zip', respectively.

Academic integrity: the originality of the submitted exercises will be checked.

Document Instructions

- Only one of the team members should submit the file
- The report should be written in Hebrew or English.
- Each section should have the relevant title and number as is in this document.
- Every image should be accompanied with the relevant explanation.
- In every question where you are asked to submit a function, add short explanation.
- The displayed images should be large enough for us to see them.
- The document should be organized and readable.

Code Instructions

- Avoid using built-in Python functions unless clearly stated otherwise. However, feel free to compare your own functions to the built-in functions (and explain).
- The first line of Assignment?.ipynb should print the full names and IDs of all team members. Use Python's print() function.

- Write modular functions for the subsections and reuse those functions throughout your code whenever possible.
- Use meaningful names for all functions and variables.
- Try to avoid overriding variables.
- Write comments for every line of code that is not completely self explanatory.
- For every image displayed give a meaningful title using Python's matplotlib.pyplot.title() function.
- Use subplots whenever possible.
- All paths to files should be relative paths. If you are using subfolders use Python's os.path.join() function to construct the path to the file. Do not hard code '/' or '\' in the paths.
- To load images from your drive into the notebook, use one of the following methods:
 - Define a variable called drive_path and use it each time you load an image: Image.open(drive_path + "/image")
 - 2. Use os.chdir(drive_path) once at the beginning, and then use Image.open("image") each time you open an image.
- The code should run completely without errors. A project with errors will not be checked!