Task: We would like you to implement a histology image classifier. Given a set of images containing 4 different classes of histology regions. Your task is to classify the test set.

* You are allowed to use Python or C++ programming language.
* You are allowed to use any library (OpenCV, Pytorch, Tensorflow etc.) for the image processing and ML / DL algorithms.

Data:

* We share a folder that contains train and test images.
* There exists 4 folders that represent 4 classes (Benign, InSitu, Invasive, Normal) in the train directory

Deliverables:

* Code (Commented and well-written)
* Report that explains how to run the code
* Report that explains your motivation for the chosen approach
* Results (Loss-Accuracy Graph, Confusion Matrix, Accuracy, F1-score)

Note: We are not looking for an approach that gives 100% accuracy, we want you to demonstrate your computer vision and machine learning skills.