

## Task B - Digital Video Processing

Task B is literally the same implementation as the Week 4 Lab submission for replacing the background with only the change the condition of colour segments to different thresholds on all 3 channels. This will replace the background and substitute the monkey fairly easy:



The implementation of locating and replacing the monkey's body components are failed.

The attempts trying to achieves this to find centroid for different blocks of non-background pixels and render the picture (doge) on it. However, it failed hard since components of monkey's hands and legs.

Idea of alighting the replacing image for head is to calculate the average value of all the yellow dots on the frame, in this case, despite not being a background pixel, pixel should have value greater than 220 on green channel, which makes it a yellow pixel since the non-background pixels are either red or yellow. For the hands and legs, calculate the centroid point and alighted their replacing image with changing variables.