HOMEWORK 3

Calculating Optical Flow

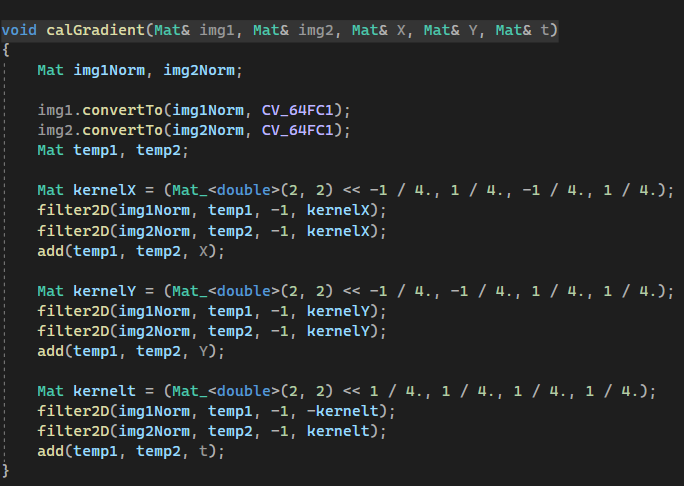
**Student Name**: Rohit Das **Student ID**: 61047086s

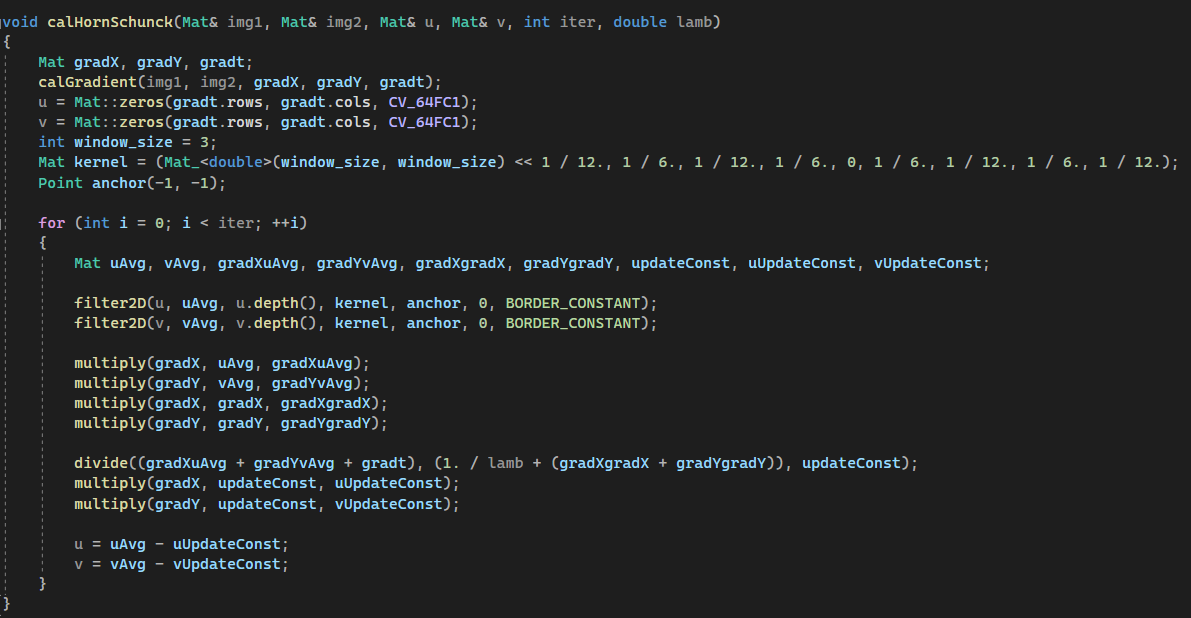
**Objective**: Calculating optical flow using specific algorithm and synthetically translate lena.bmp one pixel right and downward

**Algorithm Used**: Horn and Schunck Optical Flow Estimation

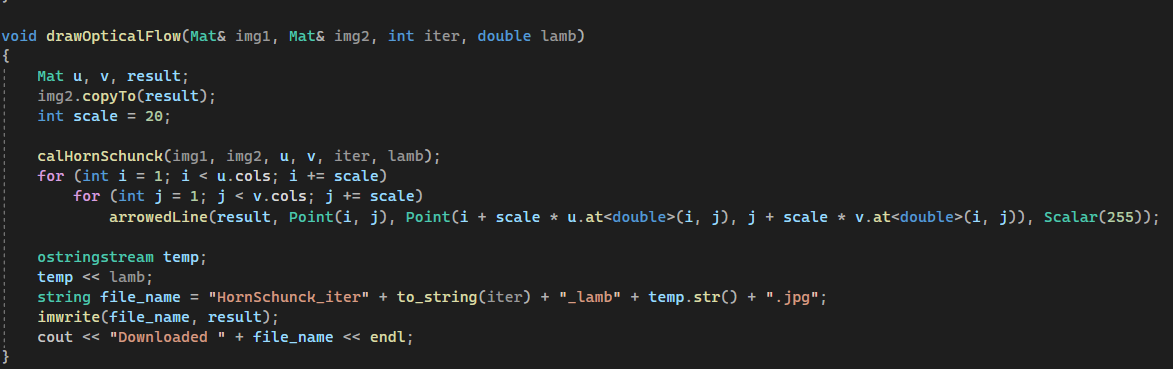
**Screenshot of the Algorithm:**

Call Gradient:



Horn and Schunk Calculation

Draw optical Flow:



**Results**

 ****

**HornSchunck\_iter1\_lamb0.1 HornSchunck\_iter1\_lamb1**

** **

**HornSchunck\_iter1\_lamb10 HornSchunck\_iter4\_lamb0.1**

 ****

**HornSchunck\_iter4\_lamb1 HornSchunck\_iter4\_lamb10**

 ****

**HornSchunck\_iter16\_lamb0.1 HornSchunck\_iter16\_lamb1**

**HornSchunck\_iter16\_lamb10 HornSchunck\_iter64\_lamb0.1**

**HornSchunck\_iter64\_lamb1 HornSchunck\_iter64\_lamb10**