**University of Moratuwa**

**Department of Electronics and Telecommunication**

A picture containing emblem, badge, crest, symbol

Description automatically generated

**EN3160 – Image Processing and Machine Vision**

**Report Activity 01**

**200356A**

Q1.

A screen shot of a computer program

Description automatically generatedA person with a half face

Description automatically generated

Figure 2 Code for the given transformation

Figure Image after the intensity transform

Q2.

1. A close-up of a brain scan

   Description automatically generatedWhite matter enhanced

A close-up of a brain scan

Description automatically generated

Figure 3 Original image

Figure 4 White matter enhanced image

A graph with a line

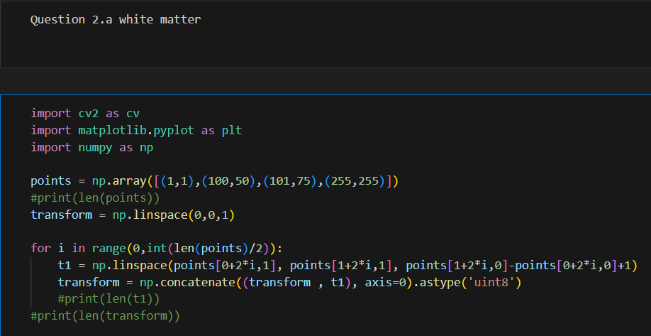
Description automatically generated

Figure 5 White matter enhancing transform

Figure 6 White matter enhancing transform code

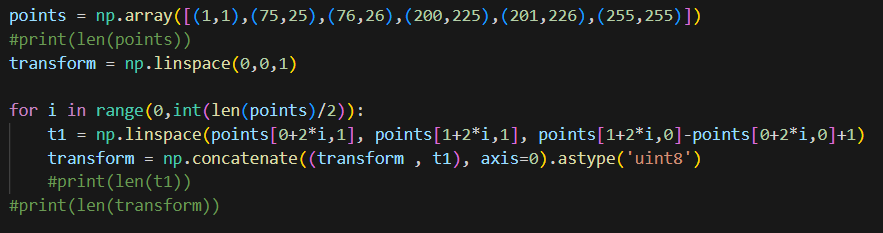
1. A close-up of a brain scan

   Description automatically generatedA close-up of a brain scan

   Description automatically generatedGray matter enhanced

Figure 8 Gray matter enhanced image

Figure 7 Original image

A graph with a line

Description automatically generated

Figure 10 Gray matter enhancing transform code

Figure 9 Gray matter enhancing transform

Here, most black parts are not in gray matter. Therefore, enhancement is done only for the region where gray matter is.

This intensity transform will enhance the gray matter area.

Q3.

Gamma value used = **0.6**

A collage of images of rocks

Description automatically generated

A close-up of a graph

Description automatically generated

Q4.

A screenshot of a phone

Description automatically generated

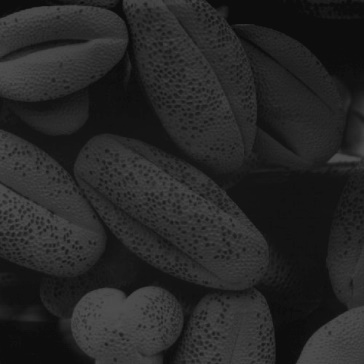
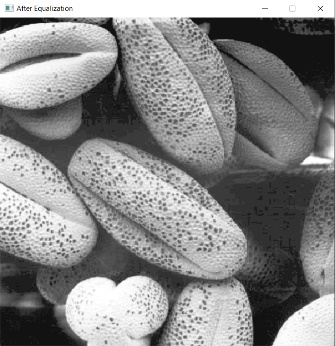
A computer screen with many white text

Description automatically generatedA graph with a line

Description automatically generated

Q5.

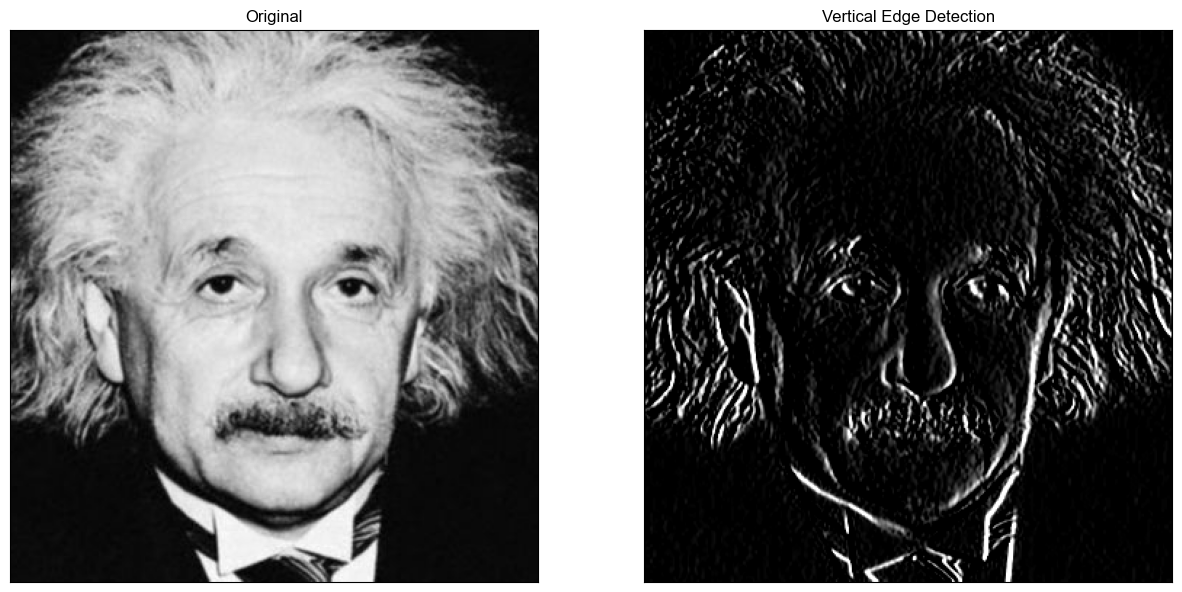
A computer screen shot of a program code

Description automatically generated

A graph of a diagram

Description automatically generated with medium confidence

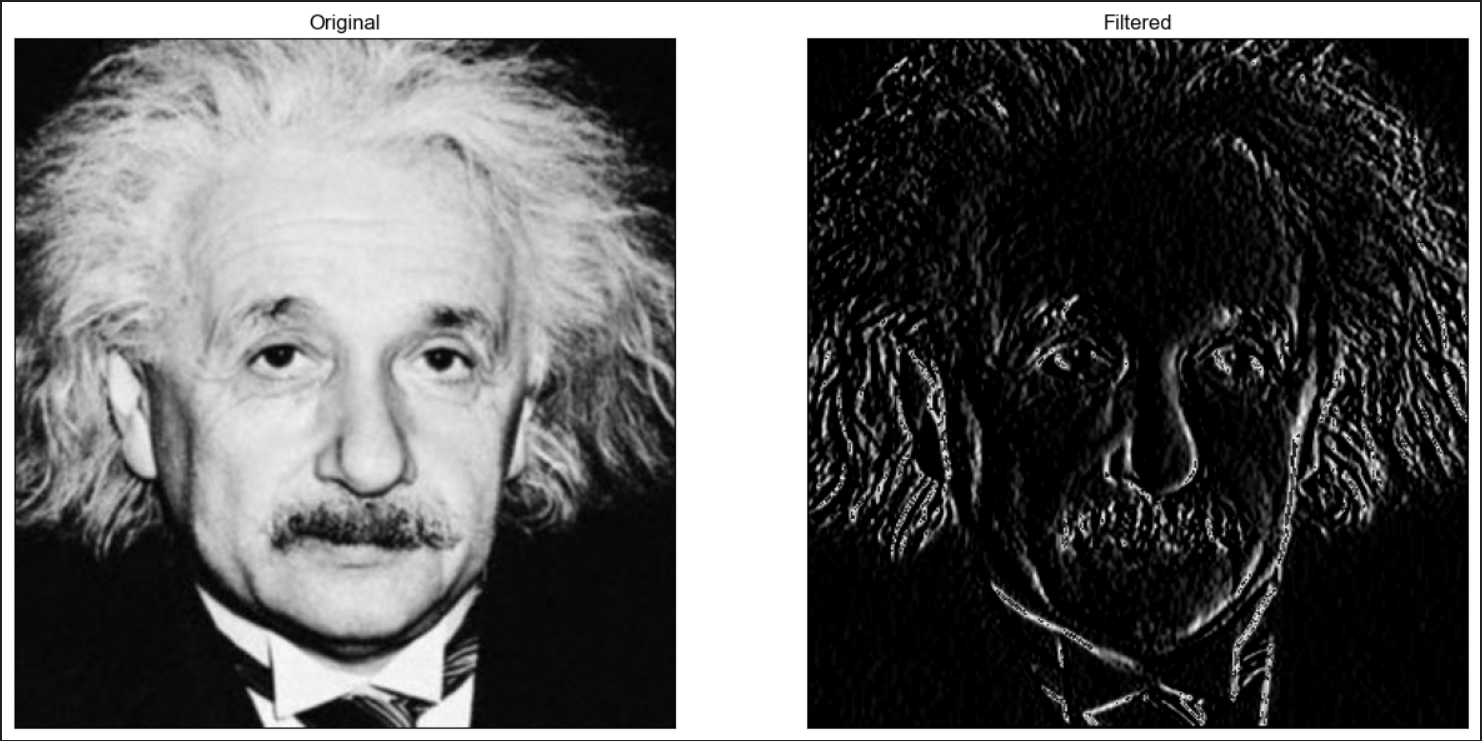
Q7. A



A screen shot of a computer program

Description automatically generated

B



A screen shot of a computer

Description automatically generated

Q8.