8 to 24 bit BMP Converter

Group 1

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Overview

BMP is a format developed by microsoft to store images. This Program converts an uncompressed 8 Bit BMP image which stores pixel data in terms of grayscale values to a 24 bit BMP image which stores pixel data in terms of RGB values.

Instructions to run the code

After unzipping this folder,
- Give the command *make*
- Give the command *./output*
- Add the source image to the directory of our code
- Enter the name of the source image when prompted and press Enter
- OR Enter the path of the source image
- In the directory of our code, a file named *output.bmp* will be formed, open it
- The header data of both the sample and target data will be displayed in the terminal to verify that the conversion is successful

Work distribution

IMT2020009 Sathvik I Bhat   and IMT2020552 Surya Vamsi Kalaga :

Reading grayscale pixel data from source and storing in array

Conversion of grayscale values into RGB values

Writing RGB values into the target and getting reflection of the image

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Created Structures required by various parts of the code

Split the program into meaningful parts and created the makefile

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Reading header data from the source

Writing header data to target

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Provided sample images

Suggested reference materials