Report Assignment3 D1262075

Firstly, set up a structure for header.

Secondly, make a (print header) function for printing out the image file data.

Lastly, make a (write image file) function to write the image file; inside this function, mainly use fwrite to write out image data.

Go to the main function, first define every variable needed. Then input frame size and three RGB value for frame size. Then go to a if else loop, checks the command-line arguments to ensure that the image file provided have correct file name. then use fread to read image data from the input image file and turned it into reduce size, lastly use (write image file) function to write it out.

Make a frame header and calculate every data, use for loop and separate image to four parts, and copy data from reduce image. About frame, use for loop go through every part of the imageData size set before(malloc) and use if to control where to print frame. Lastly, write it out using (write image file) function.

Use free() to free the space we used to give to output image.