Explain how you used the principle of recursion to create your image.

I used the principle of recursion to create my image by repeating a rectangle creation in the image by adding more lines to my canvas. The Neoplasticism style uses these methods, and so I used them by coding them into my code to show off the same style. In my code, I recursively called the divide method so that I could accurately pull off an image.

Briefly describe a plan for how you might write a program to produce Mondrian art.

Define your variables, including colors, size of canvas, shape of canvas, and the ratio of white space to color. Create a method which recursively calls itself to make more rectangles in my defined canvas with angles of 90 degrees so that the Neoplasticism effect is preserved. It stops when it can no longer divide the rectangles to fit the ratio of the painting asked for in the above parameters.

Who should get the copyright credit for a piece of computer art: the CPU, the software, or the programmer? Explain your reasoning.

The programmer, because they wrote the code which generates the image. The art is fully generated through the code work of the programmer, therefore, the credit for the artwork created should go to the programmer, even if the CPU or the software used was equally important.

If a computer, with no human intervention, produced Mondrian art indistinguishable from an original masterpiece, would it be a sign of artificial intelligence?

Yes, this is a sign of artificial intelligence. If it could generate such a photo by itself, it shows that it learns what style Neoplasticism is and can faithfully recreate it. That means that it has developed this intelligence by itself and therefore, it can be said that such a computer has developed artificial intelligence skills.

If a computer, with no human intervention, produced Mondrian art indistinguishable from an original masterpiece, would it diminish the accomplishments of a human?

No, because humans were still the original creators of the style that the computer has learnt, and a human creating a similar masterpiece is still a testament to their skill in that field. They are able to recreate a masterpiece, meaning that they have spent hard work and time learning how to create such a painting, showing that they are, in fact, still talented people whose work is not diminished by software.