

SENIOR PROJECT DEFENSE

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PROJECT PROBLEM STATEMENT AND PURPOSE

- Problem: finding an access image editor where all features are accessible without paying for premiums or certain features.
- Purpose: to construct a C++ project constructing a Bulk image manipulation tool. This manipulation tool would have features grouped and divided by capabilities. For instance color filters, image properties, etc)

PROJECT LANGUAGE(S), SOFTWARE, AND HARDWARE

- C++
- QT Framework
- QTCreator IDE

RESEARCH AND BACKGROUND

- no background or knowledge of QT. Therefore, I had to research and experiment with the QT software.
- I also did research on specific classes built into QtCreator such as MainWindow, QImage, QLabel. Throughout the process I had to research:
 - examples and tutorials built into the IDE
 - Online documentation

PROJECT REQUIREMENTS

- High priority requirements that I wanted application meet included:
 - The user should be able to upload their desired image
 - The product shall be easy to use by many demographics with little to no training
 - The application should allow the user to save and download the modified version of the image to their device
 - The editing features should be neatly organized by category
 - The program should have multiple basic editing functions to alter an image
 - The program should be easily accessible and readily available to anyone

TESTING AND TEST RESULTS

- To test usability, I had people of different age groups use the program to see if they could manage all capabilities of the program using criteria determined by the project requirements.
- Testing suggested it was easy to use for all age groups
- Feedback included suggestions for the program interface and adding more editing functions.

CHALLENGES OVERCOME

- I mostly struggled with finding documentation to meet my specific needs for this project.
 - Documentation was more targeted towards those that were already familiar with QT and the classes that go together.
- getting familiarized with the QtCreator IDE.

FUTURE ENHANCEMENTS

- Undo button
- Drop down menu to select which editing tabs are displayed
- More advanced editing features such as white balance, etc.

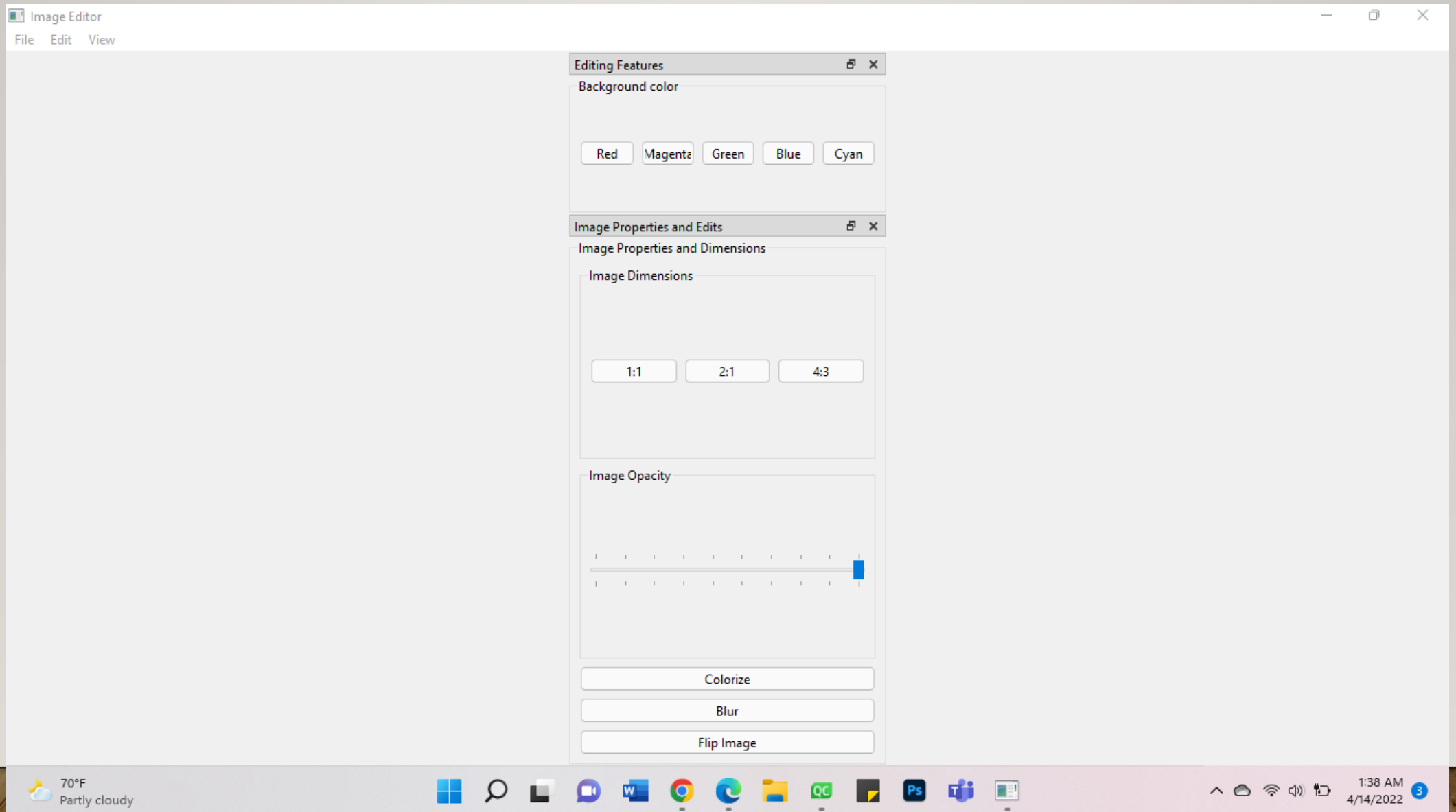
ANY QUESTIONS??



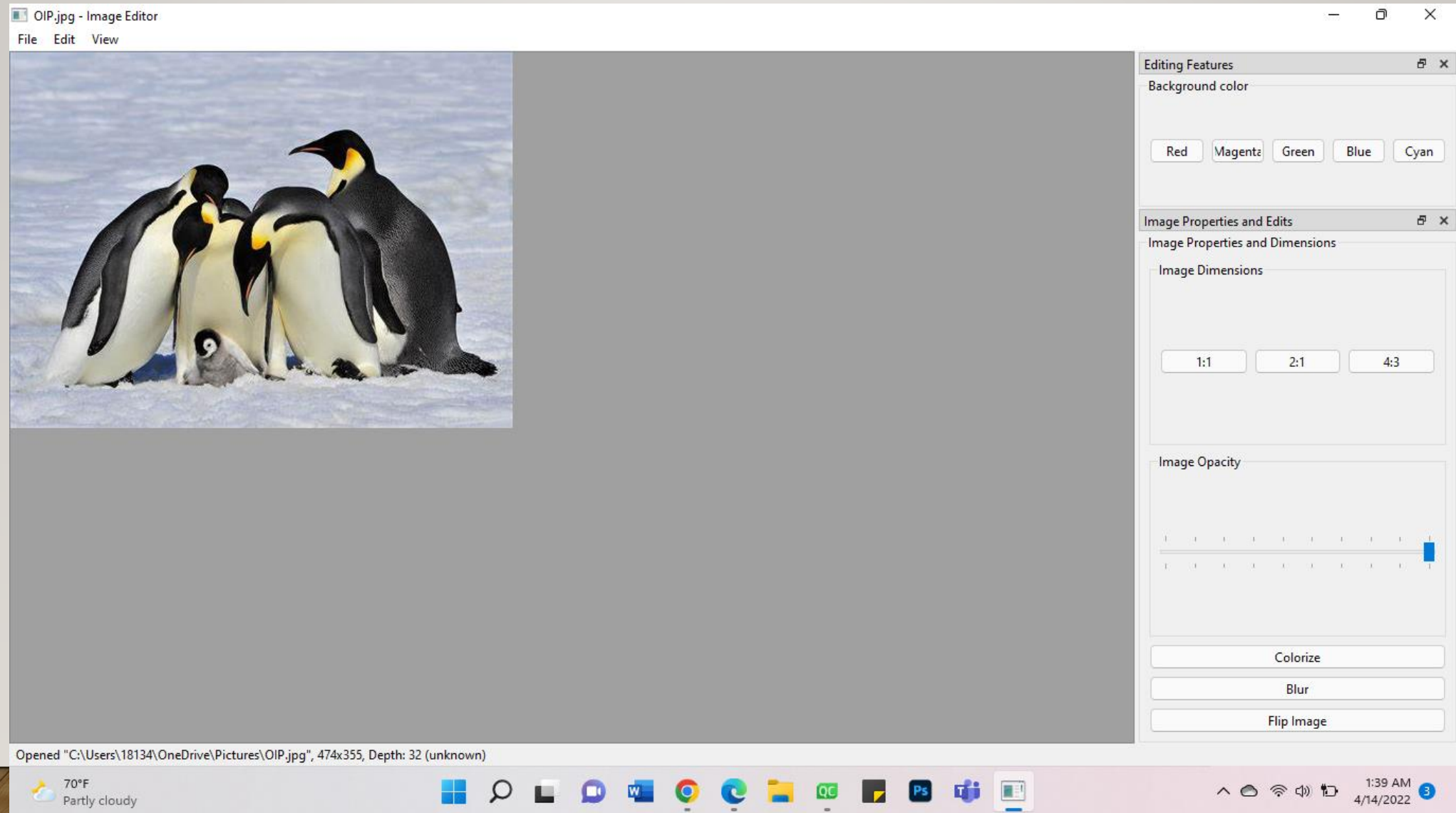
DESIGN AND FEATURES

- In the upcoming slides we will review the application interface and the features that can be utilized...

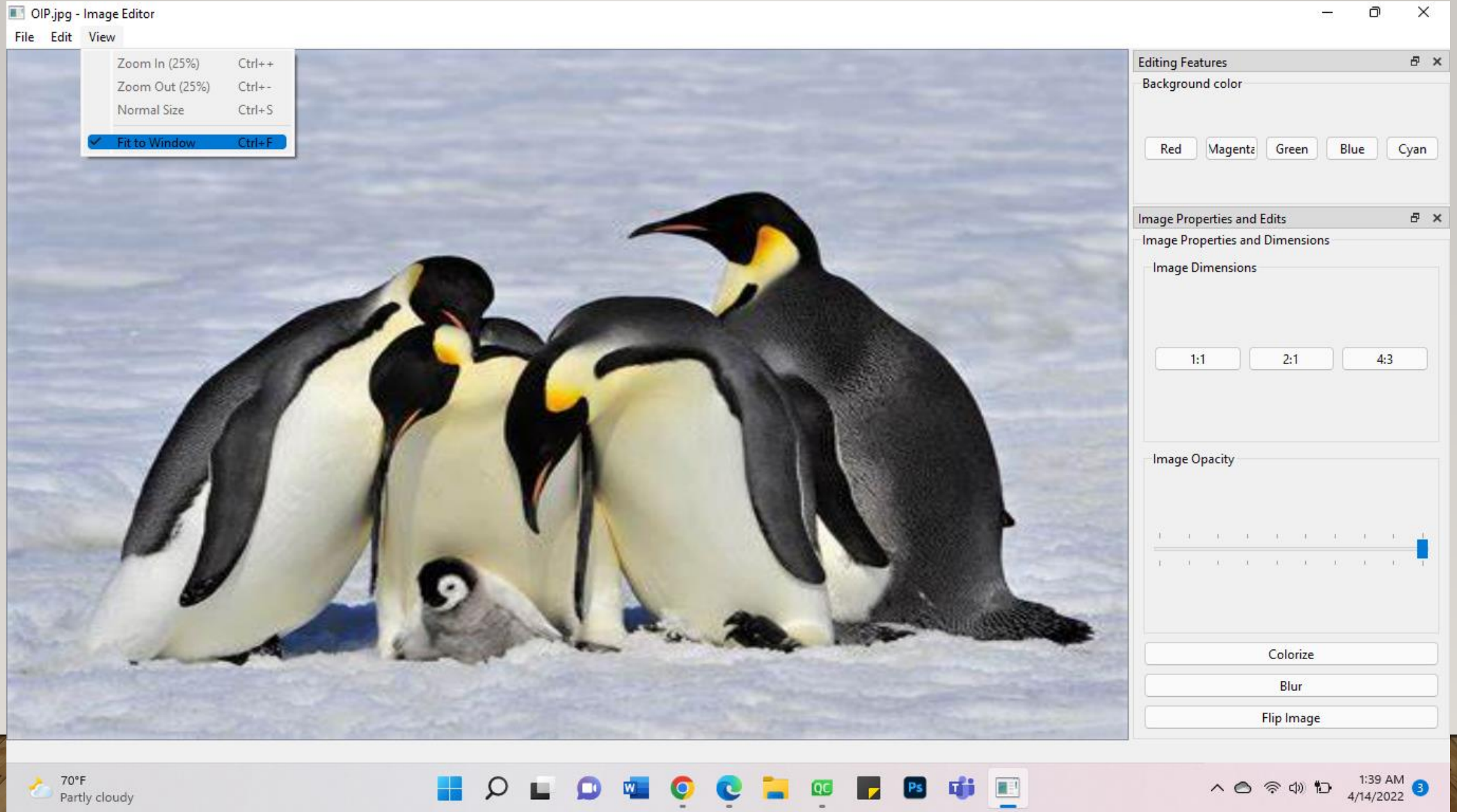
OPENING SCREEN OF THE APPLICATION



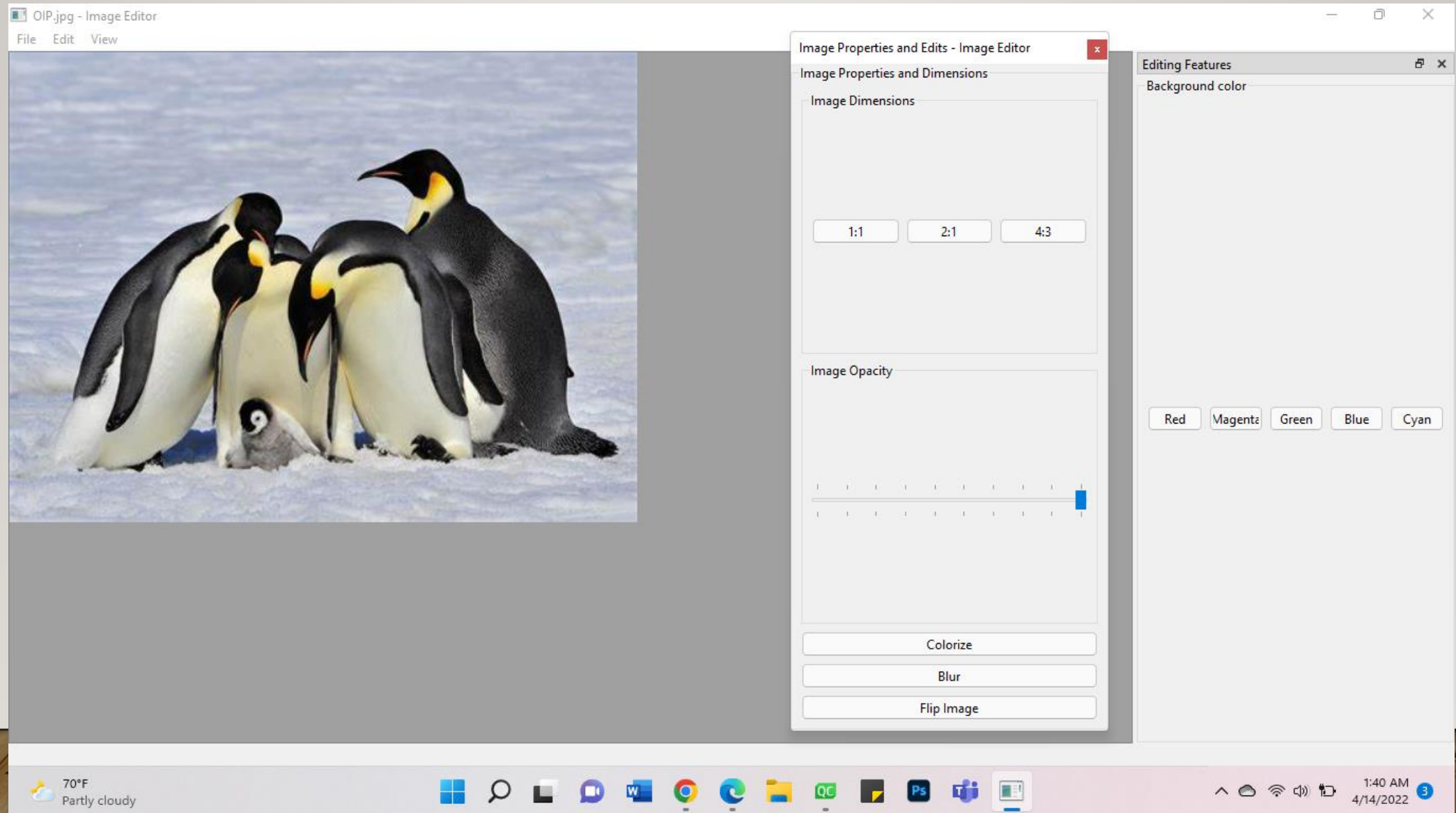
APPLICATION AFTER UPLOADING AN IMAGE



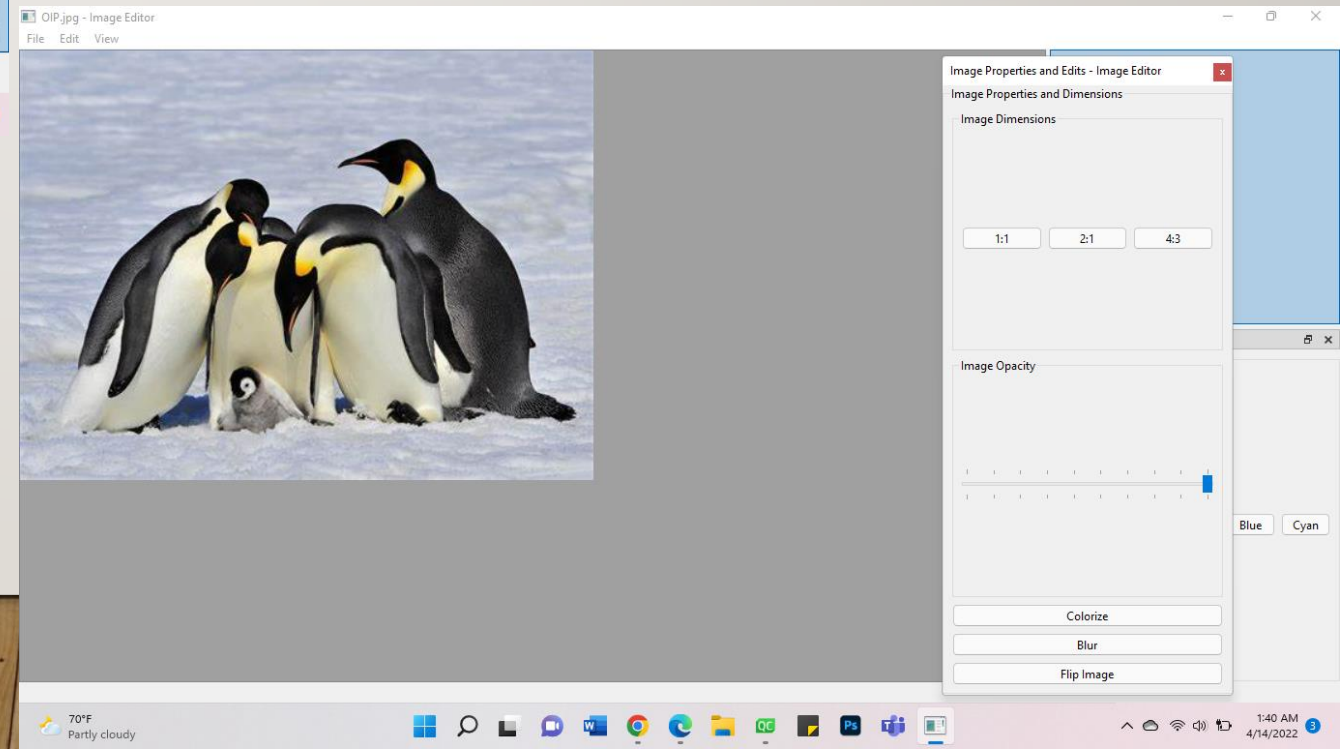
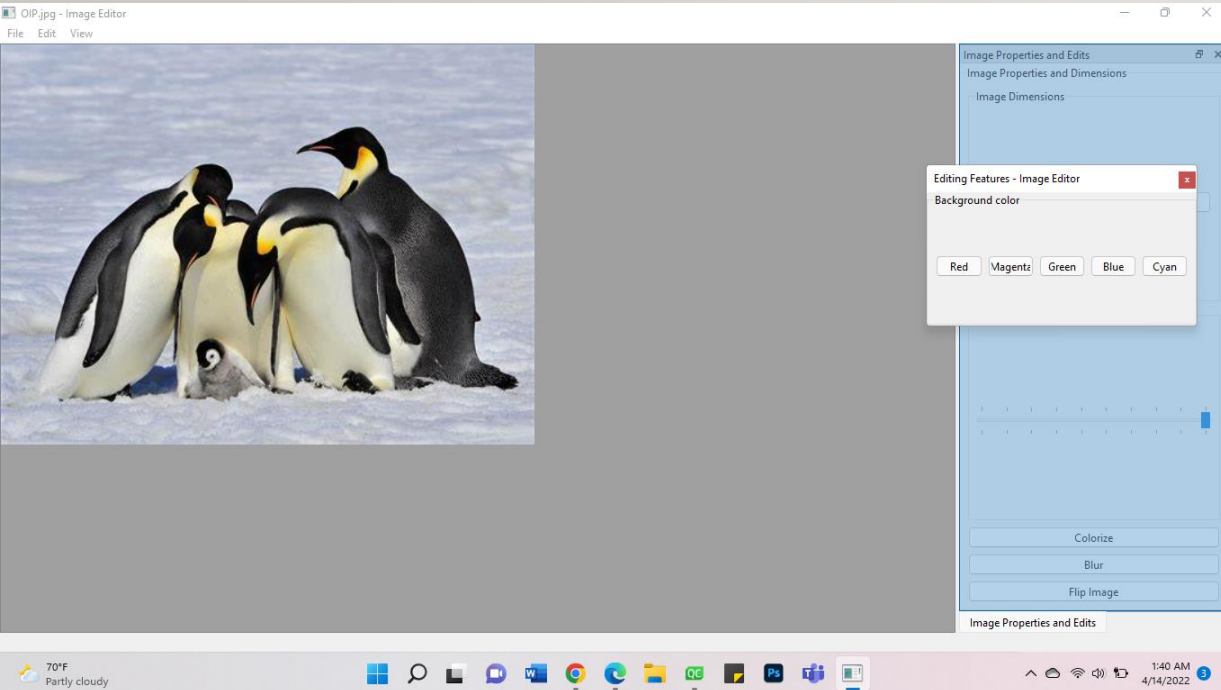
SCALING THE IMAGE USING FIT TO WINDOW OR ZOOM



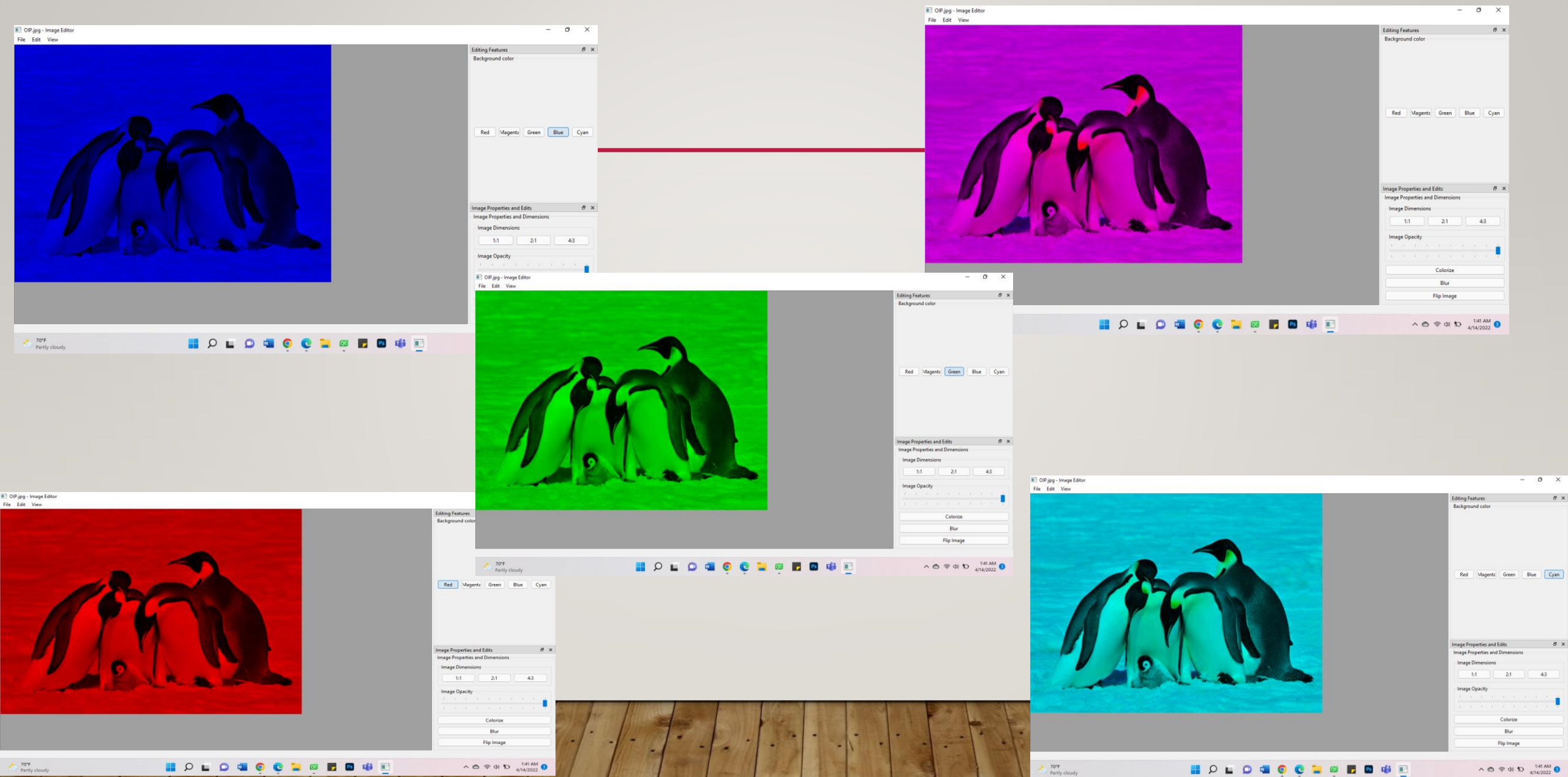
MOVING EDITING FEATURE TABS



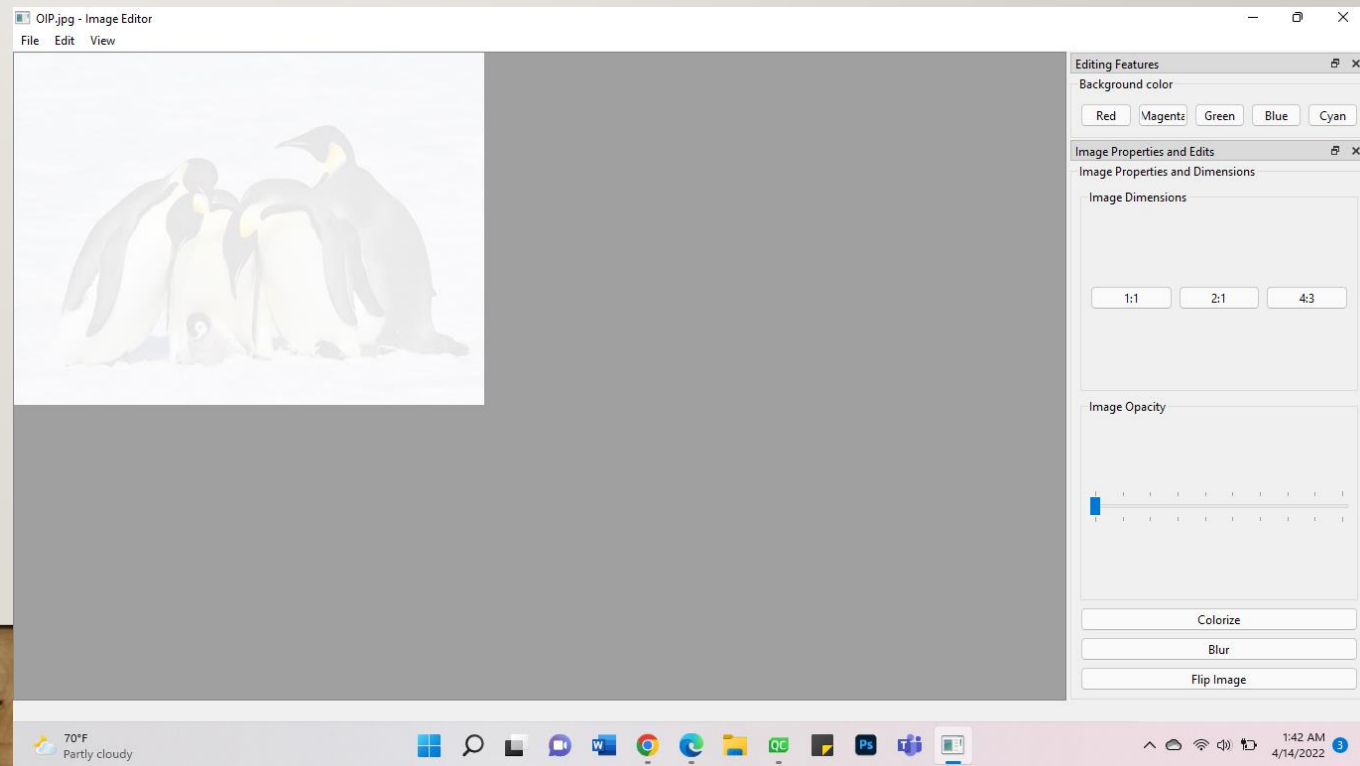
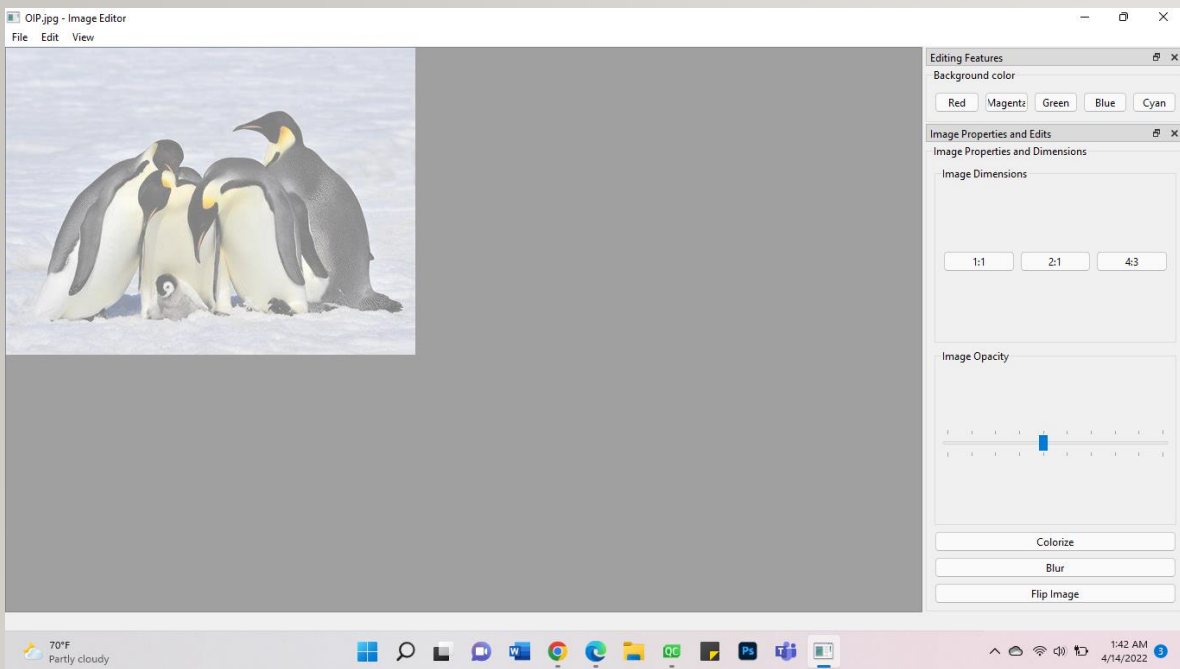
MOVING EDITING FEATURE TABS



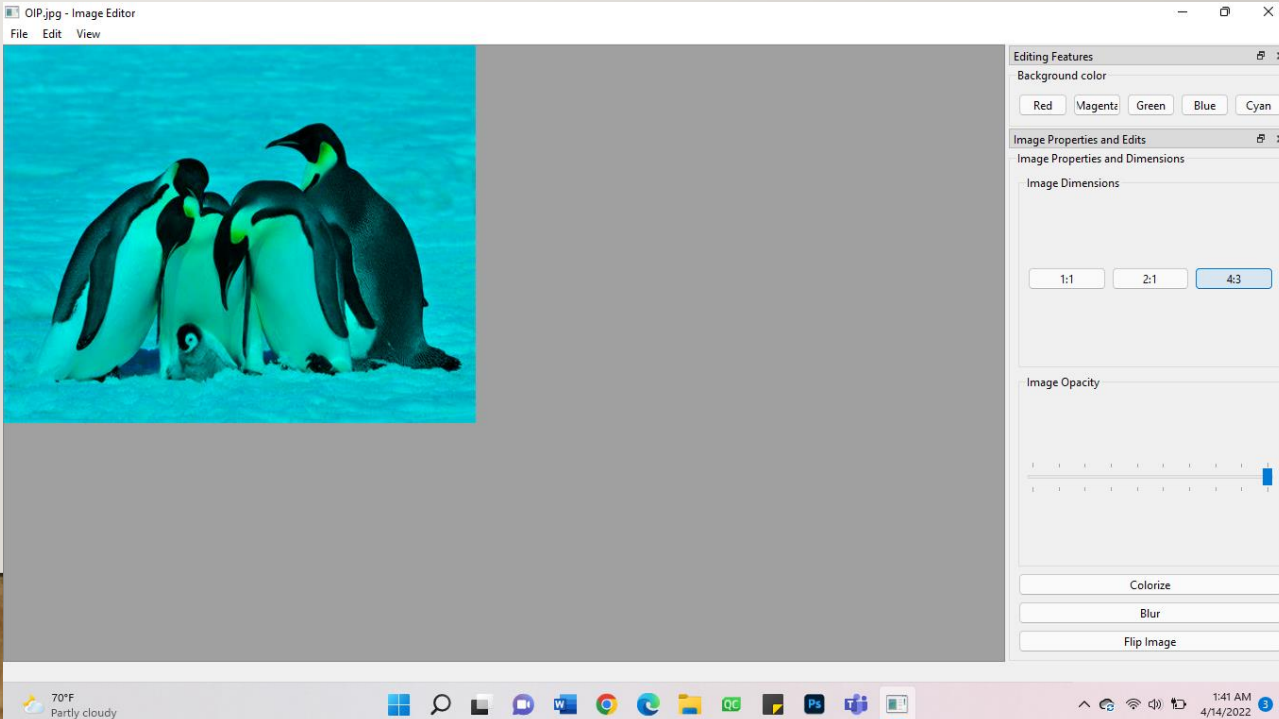
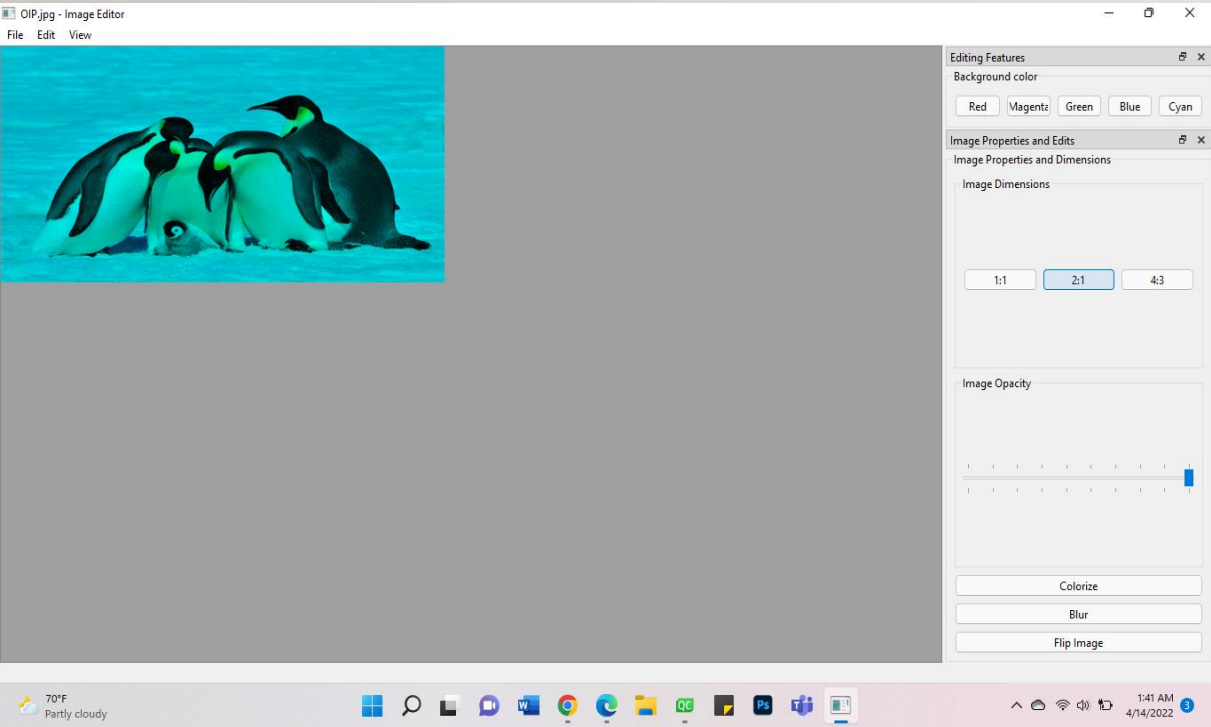
ADDING COLOR FILTERS



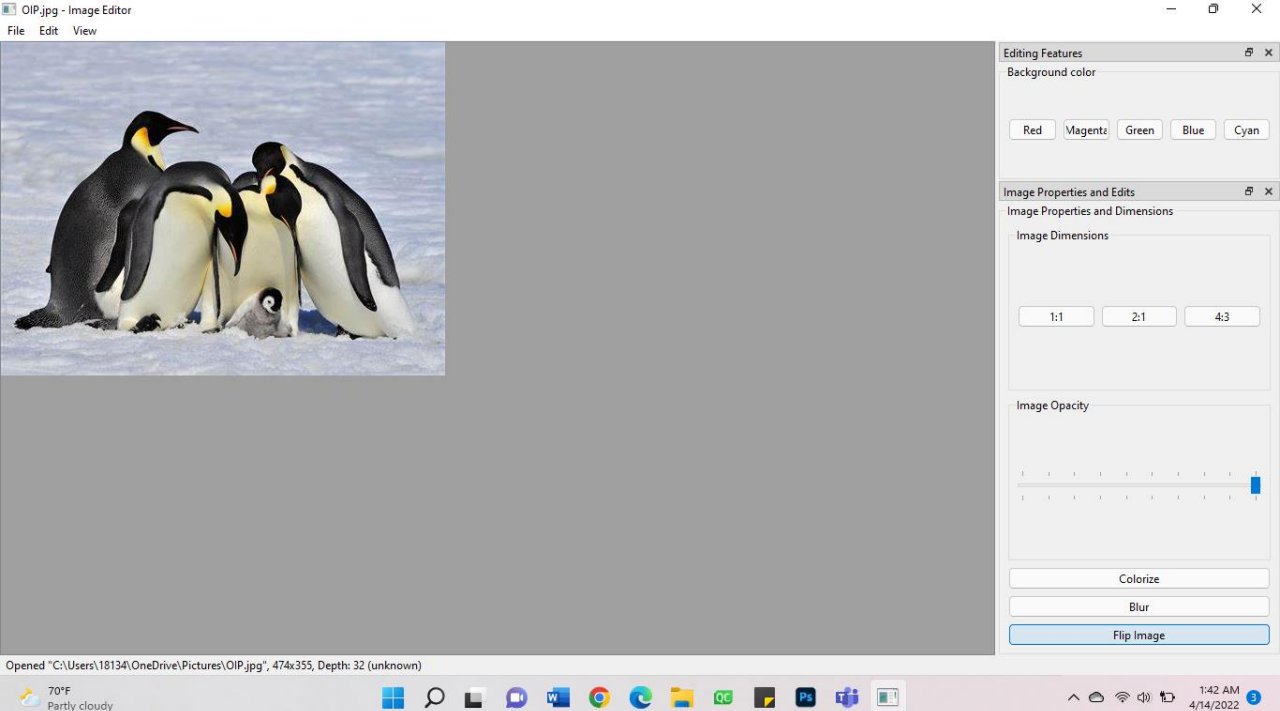
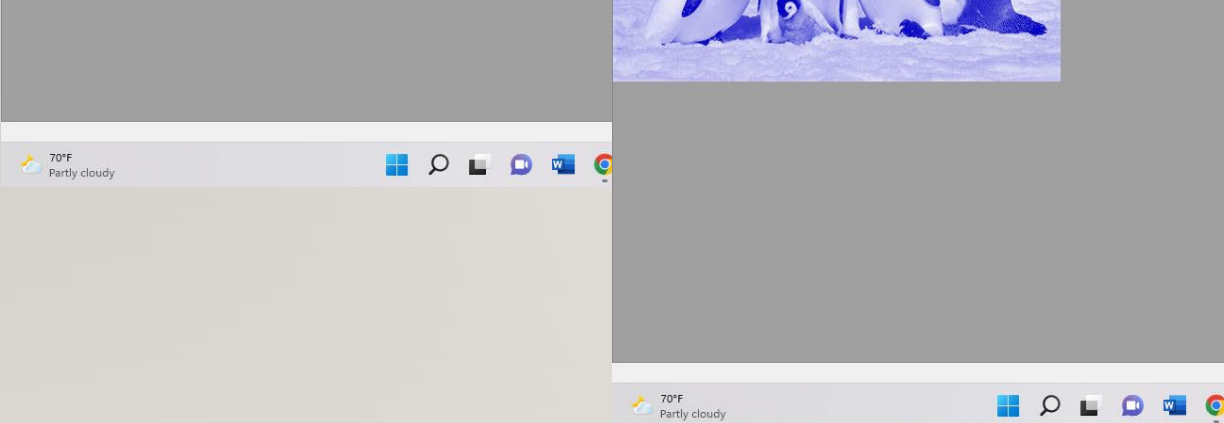
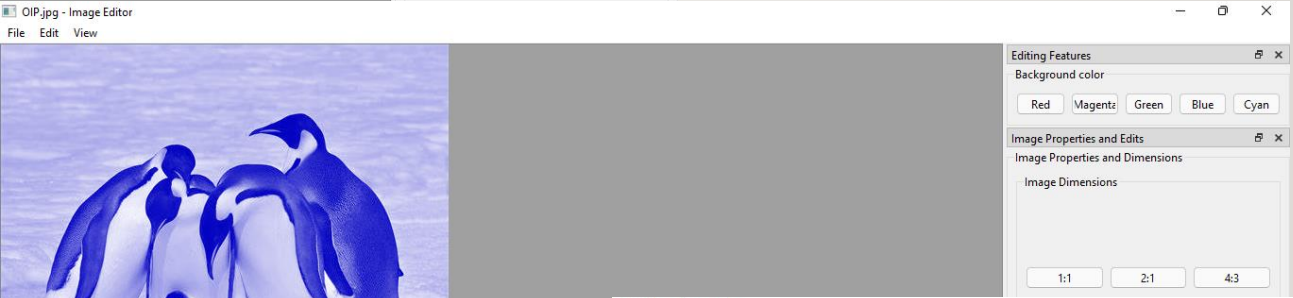
CHANGING THE OPACITY



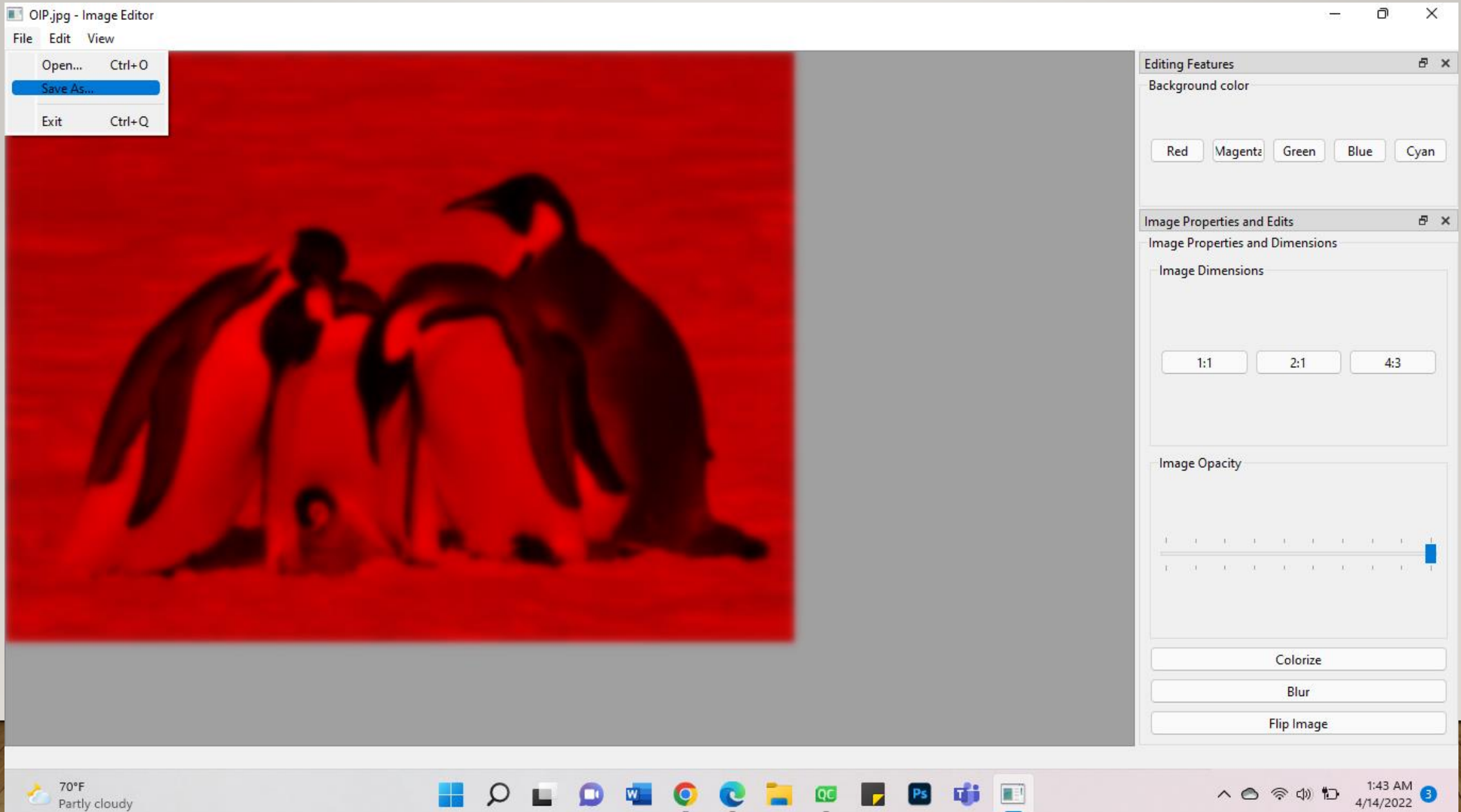
SCALING THE IMAGE WITH RATIO DIMENSIONS



EDITING OTHER IMAGE PROPERTIES



SAVING THE IMAGE TO FILES



SUCCESSFULLY SAVED IMAGE

