1. Capture and paste a program segment that implements an algorithm and that is fundamental for your program to achieve its intended purpose. This code segment must be an algorithm you developed individually on your own, must include two or more algorithms, and must integrate mathematical and logical concepts. Describe how each algorithm within your selected algorithm functions independently, as well as in combination with others, to form a new algorithm that helps to achieve the intended purpose of the program.

filename2 = input("What is the name of the image to paste on top?")

directory2 = os.path.dirname(os.path.abspath(\_\_file\_\_))

filepath2 = os.path.join(directory2, filename2)

img2 = plt.imread(filepath2)

img.paste(img2,(x,y), mask = img2)

The first part of the algorithm asks for user input to determine the name of the first picture file(base picture) and the second shown in this snippet asks for the name of the image to be pasted on top. It then does the pasting action. After this, it would be shown with an ax.imshow() and fig.show() function(not shown in the segment above).