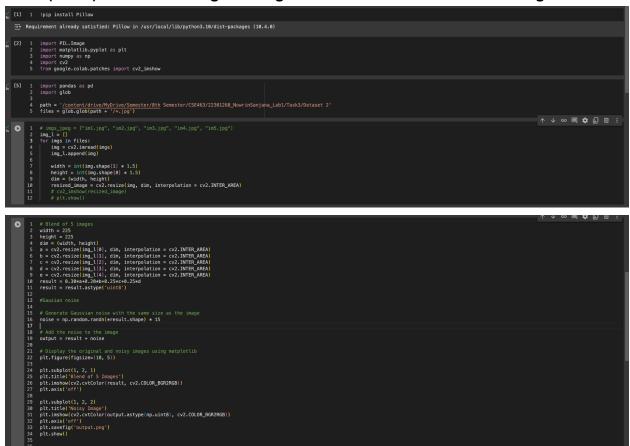
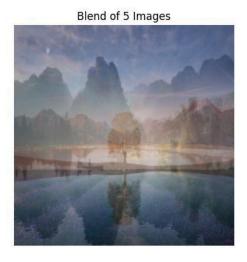
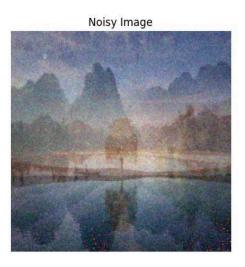
## Task3(Code) blend of 5 images and gaussian noise in the blended image:



## Task3(Output) blend of 5 images and gaussian noise in the blended image:





## Task3(Code) Histogram plot:

```
# Set the mean and standard deviation of the Gaussian distribution

mean = 2

std_dev = 1

fenerate Gaussian noise

gaussian_noise = np.random.normal(mean, std_dev, np.shape(output))

# Plot the histogram of the generated Gaussian noise

plt.hist(gaussian_noise.flatten(), bins=50, density=True, alpha=0.6, color='b')

plt.rile('Generated Gaussian Noise')

plt.rklabel('Frequency')

plt.sabel('Frequency')

plt.sabel('Frequency')

plt.sabel('Frequency')

plt.saber(ig'gaussian_noise.flatten().jpg')

plt.saber() frequency')

plt.saber() frequency')
```

## Task3(output) Histogram plot:

