```python
import numpy as np
import cv2 as cv
import pandas as pd
from google.colab.patches import cv2_imshow
from PIL import Image
import matplotlib.pyplot as plt
```

```python
from google.colab import drive
drive.mount('/content/drive')
```

```
Drive already mounted at /content/drive; to attempt to forcibly remount, call drive.moun
```

```python
img = cv.imread("/content/drive/MyDrive/Colab Notebooks/images/wallpaperflare.com_wallpaper (
```

```python
cv2_imshow(img)
```

```
img.shape
```

```
(768, 1366)
```



```python
import random
def addsaltnoise(nimg):
  row, col = nimg.shape
  num_of_pixeles = random.randint(row, col)

  for i in range(num_of_pixeles):
    x_cord = random.randint(0, row-1)
    y_cord = random.randint(0,col-1)
    nimg[x_cord][y_cord]=255
  return nimg
```



```python
nimg = img.copy()

addsaltnoise(nimg)
cv2_imshow(nimg)
```

```
gimg = img.copy()
gauss = np.random.normal(0,1,gimg.size)
gauss = gauss.reshape(nimg.shape[0],nimg.shape[1]).astype("uint8")
gaussimg = cv.add(img,gauss)

cv2_imshow(gaussimg)
#cv.imwrite("gauss_noise-inmg.jpg",gaussimg)
```