READ AND WRITE AN IMAGE

AIM

To write a python program using OpenCV to do the following image manipulations. i) Read, display, and write an image. ii) Access the rows and columns in an image. iii) Cut and paste a small portion of the image.

Software Required:

Anaconda - Python 3.7

Algorithm:

Step1:

Choose an image and save it as a filename.png.

Step2:

Use imread(filename, flags) to read the file.

Step3:

Use imshow(window_name, image) to display the image.

Step4:

Use imwrite(filename, image) to write the image.

Step5:

End the program and close the output image windows.

Program:

Developed By:

Register Number:

i) #To Read,display the image

```
  import cv2
A=cv2.imread("14288_089.png",1)
cv2.imshow("Car",A)
cv2.waitKey(0)
```

ii) #To write the image

```
import cv2
A=cv2.imread("14288_089.png",1)
cv2.imwrite("14288_089.png",A)
cv2.imshow("Car",A)
cv2.waitKey(0)
```

iii) #Find the shape of the Image

```
import random
import cv2
A=cv2.imread("14288_089.png",1)
for i in range(100):
    for j in range(A.shape[1]):
        A[i][j]=
[random.randint(0,255),random.randint(0,255),random.randint(0,255)]
cv2.imshow("Car",A)
cv2.waitKey(0)
```

iv) #To access rows and columns

```
import random
import cv2
A=cv2.imread("14288_089.png",1)
for i in range(100):
    for j in range(A.shape[1]):
        A[i][j]=
[random.randint(0,255),random.randint(0,255),random.randint(0,255)]
cv2.imshow("Car",A)
cv2.waitKey(0)
```

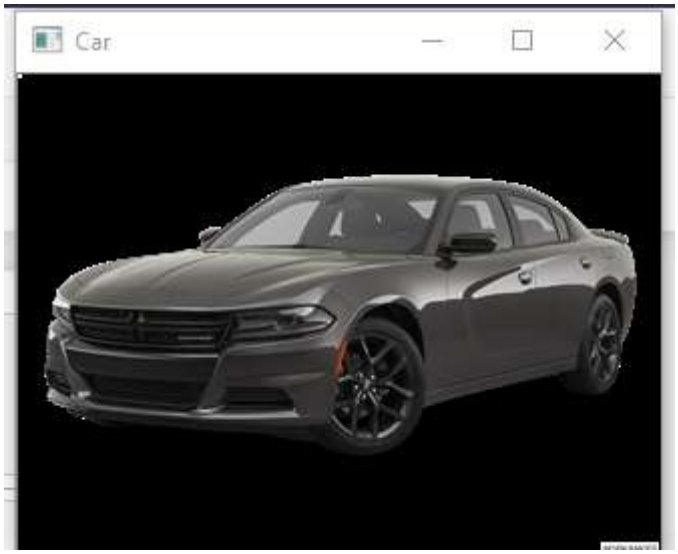
v) #To cut and paste portion of image

```
import cv2
A=cv2.imread("14288_089.png",1)
tag=A[50:150,75:90]
A[25:125,50:65]=tag
cv2.imshow("Car",A)
cv2.waitKey(0)
```

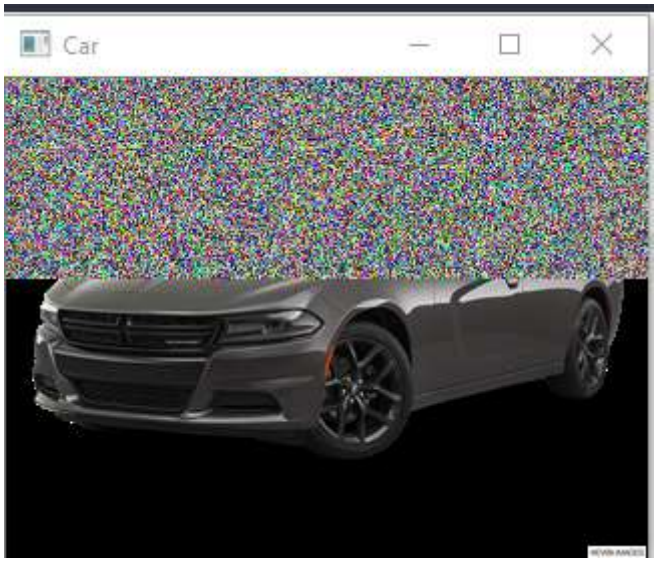
Output:

i) Read and display the image

ii)Write the image

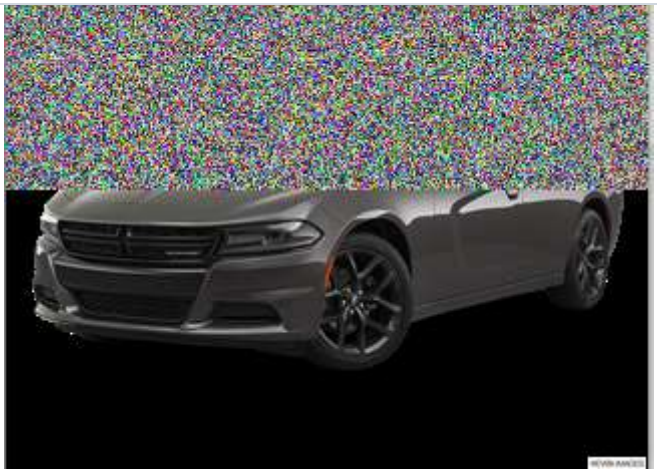


iii)Shape of the Image



iv)Access rows and columns

README.md



v)Cut and paste portion of image

Result:

Thus the images are read, displayed, and written successfully using the python program.

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