MAJOR PROJECT-2

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► **Create any of the Image Processing Projects using Numpy and OpenCV.(Projects done in the class are not accepted) (One can use the haarcasacde models if necessary)**

CODE :

```python
import cv2
import numpy as np
from tkinter.filedialog import *

photo = askopenfilename()
img = cv2.imread(photo)

grey = cv2.cvtColor(img, cv2.COLOR_BGR2GRAY)
grey = cv2.medianBlur(grey, 5)
edges = cv2.adaptiveThreshold(grey, 255,
cv2.ADAPTIVE_THRESH_MEAN_C, cv2.THRESH_BINARY, 9, 9)

#cartoonize
color = cv2.bilateralFilter(img, 9, 250, 250)
cartoon = cv2.bitwise_and(color, color, mask = edges)
cv2.imshow("Image", img)
cv2.imshow("Cartoon", cartoon)

#save
cv2.imwrite("cartoon.jpg", cartoon)
```

cv2.waitKey(0)

cv2.destroyAllWindows()

OUTPUT :