NAME: N. BHARATH

COLLEGE: MADANAPALLE

INSTITUTE OF TECHNOLOGY

AND SCIENCE

YEAR: 2nd YEAR

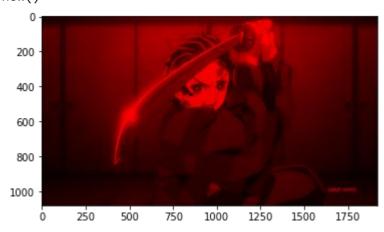
ACADEMIC YEAR: 2021-2023

MAJOR PROJECT-2

```
import numpy as np # linear algebra import pandas as pd # data
processing, CSV file I/O (e.g. pd.read_csv) import cv2 import
matplotlib.pyplot as plt
#from PIL import Image
# Input data files are available in the "../input/" directory. # For example, running
this (by clicking run or pressing Shift+Enter) will list all files
import os for dirname, _, filenames in
os.walk('/content/flowers_alpha.png'):
    for filename in filenames:
print(os.path.join(dirname, filename))
# Any results you write to the current directory are saved as output.
img1 = cv2.imread('/content/flowers alpha.png')
plt.imshow(img1) plt.show() img2 =
cv2.imread('/content/Screenshot (43).png')
plt.imshow(img2) plt.show() img3 = cv2.imread('/content/Iron-
Fist-Computer-Wallpaper.jpg')
plt.imshow(img3)
plt.show()
```

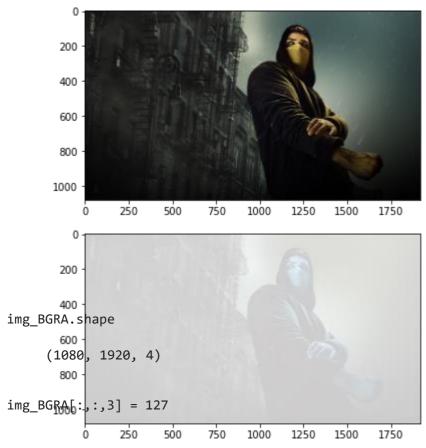


plt.imshow(cv2.cvtColor(img2, cv2.COLOR_BGR2RGB))
plt.show()



```
plt.imshow(cv2.cvtColor(img3, cv2.COLOR_BGR2RGB))
plt.show()
```

b_channel, g_channel, r_channel = cv2.split(img3)
alpha_channel = np.ones(b_channel.shape, dtype=b_channel.dtype) * 50
img_BGRA = cv2.merge((b_channel, g_channel, r_channel, alpha_channel))
cv2.imwrite('/content/Iron-Fist-Computer-Wallpaper.jpg',img_BGRA)
plt.imshow(cv2.cvtColor(img_BGRA, cv2.COLOR_BGR2BGRA)) plt.show()



plt.imshow(cv2.cvtColor(img_BGRA, cv2.COLOR_BGR2RGB))
plt.show()



First create the image with alpha channel rgba
= cv2.cvtColor(img3, cv2.COLOR_RGB2RGBA)

Then assign the mask to the last channel of the image
rgba[:, :, 3] = 0.5 cv2.imwrite('result.png',rgba)

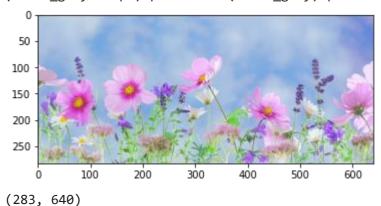
True

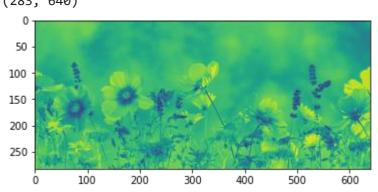
plt.imshow(cv2.cvtColor(rgba, cv2.COLOR_BGR2BGRA))
plt.show()

```
200 - 400 - 600 - 800 - 1000 - plt.imshow(cv2.20tCo100 (img1, cv2.20coL000BGR2RGB))750 plt.show()

b channel, g channel, r channel = cv2.split(img1)
```

b_channel, g_channel, r_channel = cv2.split(img1)
horse_gray = ((0.3 * r_channel) + (0.59 * g_channel)+ (0.11 * b_channel))
#horse_gray = cv2.merge((b_channel, g_channel, r_channel))
print(horse_gray.shape) plt.imshow(horse_gray) plt.show()





rosebloom = cv2.VideoCapture('/content/Screenshot (43).png')

```
type(rosebloom)
frame_width = int(rosebloom.get(3))
print(frame_width)
frame_height = int(rosebloom.get(4))
print(frame_height)

1920
```

1080

Colab paid products - Cancel contracts here

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