TUGAS PENGOLAHAN CITRA DIGITAL

Pertemuan 5 – Bitmap VS VektorFile

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Kelas: 5 CA Mata Kuliah: Pengolahan Citra Digital

Alat dan Bahan:

- 1. Text Editor
- 2. Python
- 3. Library Python numpy, opency
- 4. Google Colab (Opsional)

1. Menggambar Pemandangan Menggunakan Python

Source Code:

```
import numpy as np
import cv2 as cv
# Menentukan canvas
img = np.ones((512, 512, 3), np.uint8)*255
cv.circle(img, (200, 200), 20, (255, 0, 0), -1)
for angle in range (0, 360, 45):
   x offset = int(60 * np.cos(np.radians(angle)))
   y offset = int(60 * np.sin(np.radians(angle)))
   cv.circle(img, (200 + x_offset, 200 + y_offset), 30, (147, 20, 255),
-1)
cv.rectangle(img, (190, 220), (210, 320), (0, 255, 0), -1)
daun pts = np.array([[170, 250], [190, 240], [190, 260]], np.int32)
cv.polylines(img, [daun_pts], True, (0, 128, 0), 3)
daun_pts = np.array([[210, 250], [230, 240], [230, 260]], np.int32)
cv.polylines(img, [daun pts], True, (0, 128, 0), 3)
for x in range (0, 400, 40):
    triangle pts = np.array([[x, 340], [x + 15, 320], [x + 30, 340]],
np.int32)
   cv.fillPoly(img, [triangle_pts], (0, 128, 0))
font = cv.FONT HERSHEY SIMPLEX
cv.putText(img, "Muhammad Rifqi Amir Putra", (10, 500), font, .5, (0, 0,
0), 1, cv.LINE AA)
cv.imshow("My Drawing", img)
cv.waitKey(0)
cv.destroyAllWindows()
```

Hasil:

