



Assignment

Course Code: CSE221

Course Title: Object Oriented Programming

Topic: Word Cloud

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There is a package named name.txt in a folder. In that package, the names of 50 people in the section are written. In another package (Rakibul.png), there is a picture of my name. Inside this name, I will show all the names in name.txt. The code is given below.

Code:

```
from wordcloud import WordCloud, STOPWORDS
import numpy as np
import matplotlib.pyplot as plt
import PIL.Image

# Text file load
text = open('name.txt', 'r').read()

# Mask image load
python_mask = np.array(PIL.Image.open("Rakibul.png"))

# WordCloud generate kora
wc = WordCloud(
    stopwords=STOPWORDS,
    mask=python_mask,
    background_color="black", # Black background
    contour_width=0, # No contour outline
    min_font_size=1,
    max_words=100000
).generate(text)

# Visualization
plt.figure(figsize=(10, 10)) # Optional: Output size adjustment
plt.imshow(wc, interpolation="bilinear")
plt.axis("off") # Axis off kore dekhabe na
plt.tight_layout(pad=0) # Layout tight for full image display
plt.show()
```

Output:

