

```
from bs4 import BeautifulSoup
import pandas as pd
import matplotlib.pyplot as plt

# File path pointing to the uploaded HTML file
file_path = '/content/sample_blog.html'

# Read the HTML content from the file
with open(file_path, 'r') as file:
    html_content = file.read()

soup = BeautifulSoup(html_content, 'html.parser')

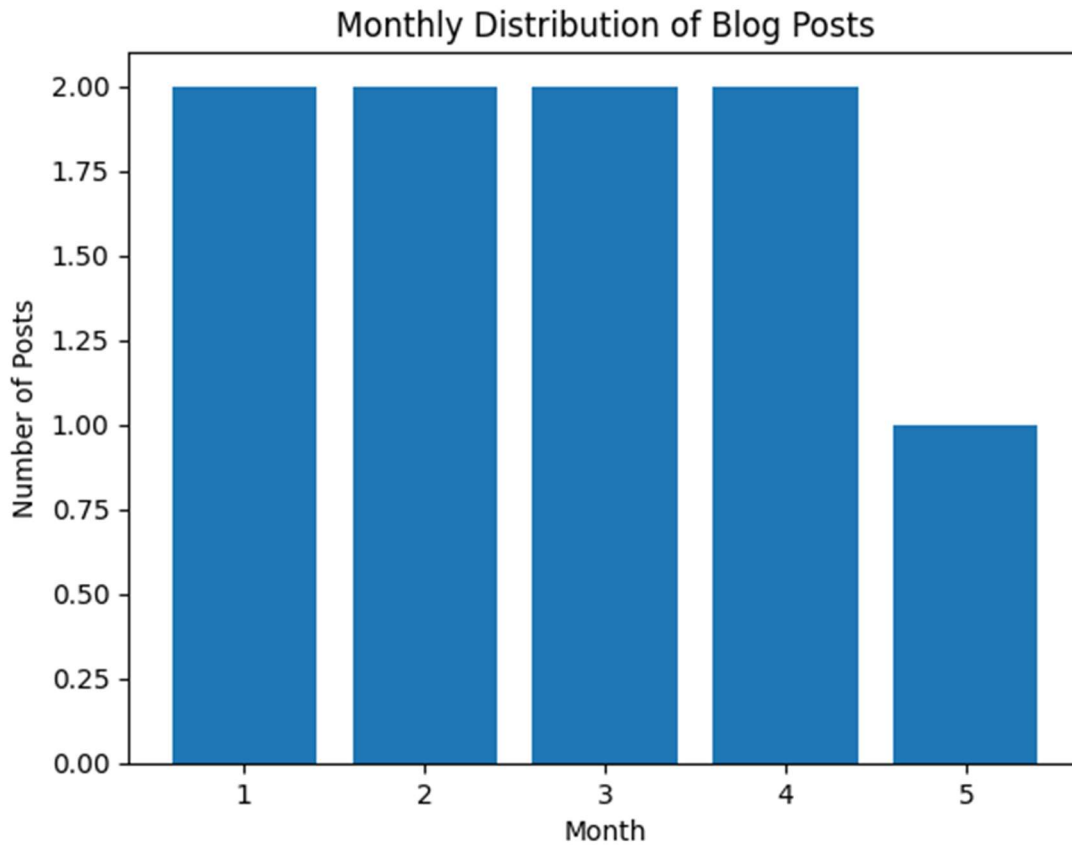
titles = []
dates = []

for post in soup.find_all('div', class_='post'):
    title = post.find('h2').text
    date = post.find('span', class_='date').text
    titles.append(title)
    dates.append(date)

data = {'Title': titles, 'Date': dates}
df = pd.DataFrame(data)

df['Date'] = pd.to_datetime(df['Date'])
df['Month'] = df['Date'].dt.month
monthly_counts = df['Month'].value_counts().sort_index()

plt.bar(monthly_counts.index, monthly_counts.values)
plt.xlabel('Month')
plt.ylabel('Number of Posts')
plt.title('Monthly Distribution of Blog Posts')
plt.show()
```



html file:

```
<!DOCTYPE html>
```

```
<html lang="en">
```

```
<head>
```

```
  <meta charset="UTF-8">
```

```
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
```

```
  <title>Sample Blog</title>
```

```
</head>
```

```
<body>
```

```
  <div class="post">
```

```
    <h2>Title 1</h2>
```

```
    <span class="date">2023-01-01</span>
```

```
    <p>Lorem ipsum dolor sit amet, consectetur adipiscing elit. Vivamus vestibulum ipsum sed justo  
posuere, id blandit ipsum molestie.</p>
```

```
  </div>
```

```
  <div class="post">
```

<h2>Title 2</h2>

2023-01-15

<p>Nulla facilisi. Nulla facilisi. Suspendisse non libero nec turpis malesuada suscipit.</p>

</div>

<div class="post">

<h2>Title 3</h2>

2023-02-10

<p>Curabitur tincidunt justo in quam ultrices, ac tincidunt sem tristique. Etiam euismod velit vel tellus condimentum, non venenatis ipsum tristique.</p>

</div>

<div class="post">

<h2>Title 4</h2>

2023-02-20

<p>Quisque luctus, libero et fermentum laoreet, magna sapien sollicitudin est, nec fermentum orci metus eget lectus.</p>

</div>

<div class="post">

<h2>Title 5</h2>

2023-03-05

<p>Integer et justo sit amet justo tincidunt luctus. Pellentesque eu fermentum nisl. Nunc vitae ex at risus aliquet auctor a sed libero.</p>

</div>

<div class="post">

<h2>Title 6</h2>

2023-03-15

<p>Mauris egestas enim in justo fermentum, vitae consequat nunc tincidunt. Sed accumsan vehicula turpis non placerat.</p>

</div>

<!-- Add more posts with varied publication dates -->

<div class="post">

<h2>Title 7</h2>

2023-04-01

```
<p>Sed nec enim ut mi lacinia lacinia. Nulla et quam arcu.</p>
</div>
<div class="post">
  <h2>Title 8</h2>
  <span class="date">2023-04-15</span>
  <p>Etiam sit amet erat sed dui mattis bibendum. Ut pulvinar eleifend eros, a scelerisque ipsum
fringilla vel.</p>
</div>
<div class="post">
  <h2>Title 9</h2>
  <span class="date">2023-05-05</span>
  <p>Donec sit amet varius ex. Aliquam sed ipsum urna. Fusce vel sem nec risus pulvinar
consequat.</p>
</div>
<!-- Add more posts with varied publication dates -->
</body>
</html>
```