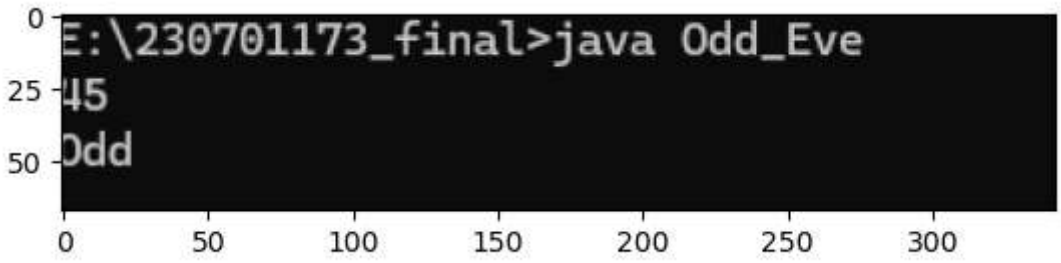
In [ ]:
```
'''Conduct an experiment to differentiate Structured , Un-structured and
Semi structured data based on data sets given.'''
```

In [5]:
```
import numpy as np
import pandas as pd
```

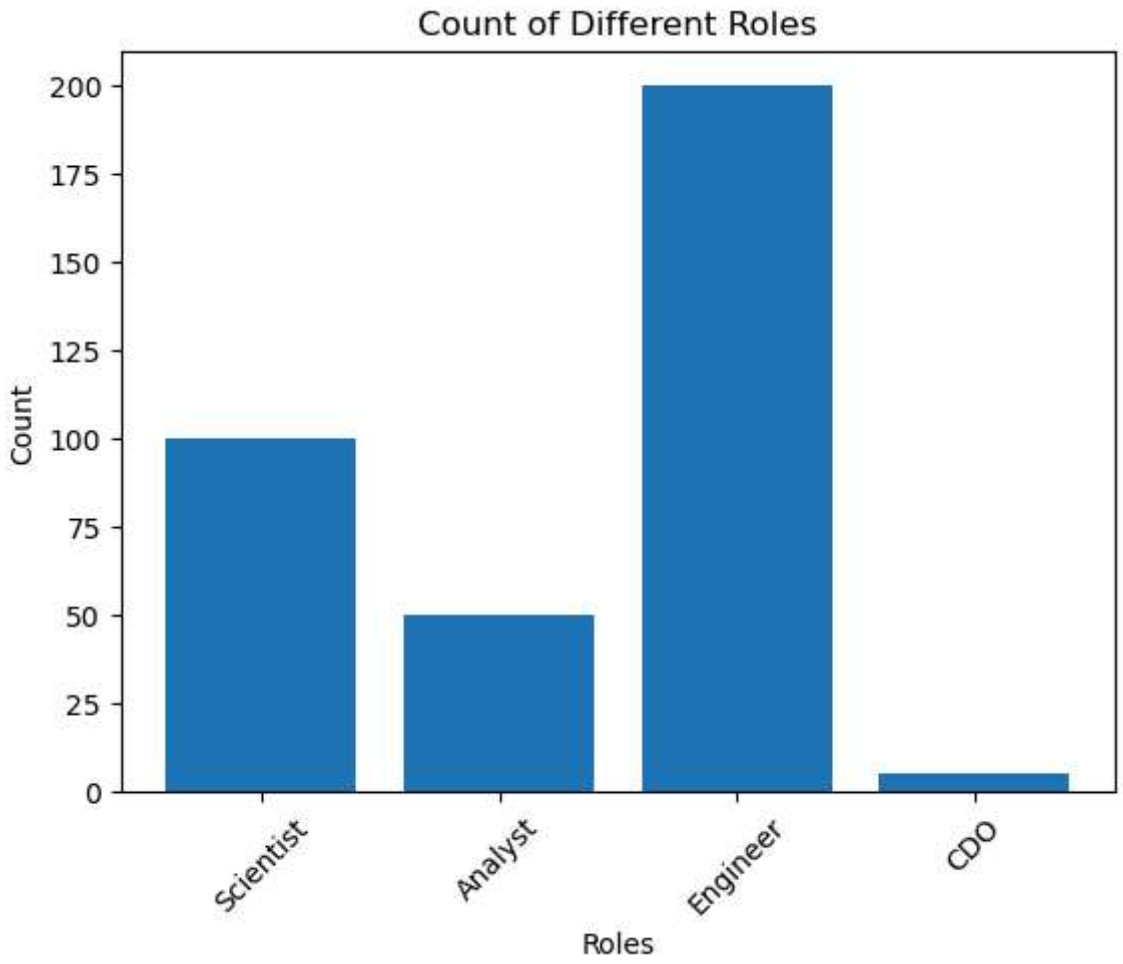
In [9]:
```
from PIL import Image    #UNSTRUCTURED
import matplotlib.pyplot as plt
image_path = r"C:\Users\DELL\Pictures\Screenshots\Screenshot 2024-07-31 131248.png"
img = Image.open(image_path)
plt.imshow(img)
plt.axis()
plt.show()
```



In [ ]:
```
print("Hi this is meenakshi")#UNSTRUCTURED DATA
```

In [6]:
```
                    #STRUCTURED DATA
data={"roles":['Scientist','Analyst','Engineer','CDO'],
      "count":[100,50,200,5]

}
df=pd.DataFrame(data)
plt.bar(df['roles'],df['count'])
plt.xlabel('Roles')
plt.ylabel('Count')
plt.title('Count of Different Roles')
plt.xticks(rotation=45)
plt.show()
```



In [8]:
```
#SEMI STRUCTURED


import json


data = {
    "name": "meenakshi",
    "age": 19,
     "College":"REC",
    "skills": ['ML' "Web Development"]
}


json_string = json.dumps(data, indent=4)
print("JSON String:")
print(json_string)
```

```
JSON String:
{
    "name": "meenakshi",
    "age": 19,
    "College": "REC",
    "skills": [
        "MLWeb Development"
    ]
}
```

In [ ]: