

```
#level 1 task3
```

```
#segment analysis
```

```
import numpy as np
```

```
import pandas as pd
```

```
import matplotlib.pyplot as plt
```

```
import plotly.graph_objs as go
```

```
import plotly.express as px
```

```
import seaborn as sns
```

```
# Load the CSV file into a pandas DataFrame
```

```
data_duplicates = pd.read_csv('C:/Users/rahul/OneDrive/Desktop/python/task-3/apps.csv')
```

```
# Display the first few rows of the DataFrame
```

```
print("first few rows")
```

```
print(data_duplicates.head())
```

```
apps = data_duplicates.drop_duplicates()
```

```
print("Total numbers of Apps : ", apps[ 'App' ].count())
```

```
apps.head()
```

output –

analysis.py

```
Unnamed: 0 ... Android Ver
```

```
0      0 ... 4.0.3 and up
```

```
1      1 ... 4.0.3 and up
```

```
2      2 ... 4.0.3 and up
```

```
3      3 ... 4.2 and up
```

```
4      4 ... 4.4 and up
```

```
[5 rows x 14 columns]
```

```
# Display the first few rows of the DataFrame
```

```
print("first few rows")
```

```
print(data_duplicates.head())
```

```
apps = data_duplicates.drop_duplicates()
print("Total numbers of Apps : ", apps[ 'App' ].count())
apps.head()]
```

output –

Total numbers of Apps : 9659

```
ch_remove = ('+', '$', 'M', ',')
col_clean = ('Size', 'Installs', 'Price')
for col in col_clean:
    for char in ch_remove:
        apps[col] = apps[col].str.replace(char, "")
    apps[col] = pd.to_numeric(apps[col])
n_categories = len(set(apps['Category']))
print('Number of categories = ', n_categories)
n_apps_in_category = apps['Category'].value_counts().sort_values(ascending=False)
data1 = go.Bar(
    x = n_apps_in_category.index,
    y = n_apps_in_category.values
)
fig = go.Figure(data1)
fig.show()
```

output—

