```
In [1]: print("Name :")
    print("We will learn how to perform group by operation and count number of
    print("We will learn how to perform group by operation and count the status
    print("We will learn how to search the number of active rockets, and perfor
```

Name:

We will learn how to perform group by operation and count number of Missi ons as per the company, and plot a bar graph out of it

We will learn how to perform group by operation and count the status of the Missions, and plot a pie chart out of it

We will learn how to search the number of active rockets, and perform gro up by operation and count number of active rockets as per the company and plot a bar graph out of it

```
In [2]: import numpy as np
import pandas as pd
import matplotlib .pyplot as plt

dataframe = pd.read_csv("space_Corrected.csv")
df=dataframe.dropna()

df
```

```
ModuleNotFoundError
t)
```

Traceback (most recent call las

/var/folders/1d/dx5rjvf91qq7f432s9k1r3780000gp/T/ipykernel_32668/15698082 01.py in <module> ---> 1 import numpy as np

2 import pandas as pd
3 import matplotlib .pyplot as plt
4

5 dataframe = pd.read_csv("space_Corrected.csv")

ModuleNotFoundError: No module named 'numpy'

```
In [3]: #Activity-1
#Find total number of missions by each company, and plot a bar graph on it
#First group by Company Name and count Status Mission and create a new data
group_by_name = df.groupby('Company Name')['Status Mission'].count().reset_
print(group_by_name)
fig = plt.subplots(figsize=(16,8))
plt.title('Total Missions (Since 1957)', fontsize=20)
plt.xlabel('Company Name', fontsize=16)
plt.ylabel('Mission Counts', fontsize=16)
plt.xticks(rotation='vertical')

#Then get all the Company Name and Status Mission count and use these 2 val
label = group_by_name['Company Name']
value = group_by_name['Status Mission']
plt.bar(label, value,width=0.4, color=('red','blue','green','pink','yellow')
```

NameError: name 'df' is not defined

```
#Activity-2
#Find out the percentage of rocket Success, Failure, Partial Failure, and
Prelaunch Failure. And plot a pie chart
```

```
In []: #Activity-3
# Find the number of Active Rockets as per the company and plot a bar grap
#First search where Status Rocket column value is equal to StatusActive
#Then group by Company Name and count Status Rocket and create a new datafr
#Then get all the Company Name and Status Rocket count and use these 2 value
```

In []:

```
In [4]: group by status = df.groupby('Status Mission')['Status Rocket'].count().res
        print(group by status)
        value = group by status['Status Rocket']
        label = group by status['Status Mission']
        plt.pie(value, labels=label, autopct='%0.1f%%', radius=2)
        plt.show()
        NameError
                                                   Traceback (most recent call las
        /var/folders/1d/dx5rjvf91qq7f432s9k1r3780000qp/T/ipykernel 32668/14051183
        17.py in <module>
        ---> 1 group_by_status = df.groupby('Status Mission')['Status Rocket'].c
        ount().reset_index
              2 print(group by status)
              3 value = group_by_status['Status Rocket']
              4 label = group_by_status['Status Mission']
              5 plt.pie(value, labels=label, autopct='%0.1f%%', radius=2)
        NameError: name 'df' is not defined
In [ ]:
In [ ]:
In [ ]:
```