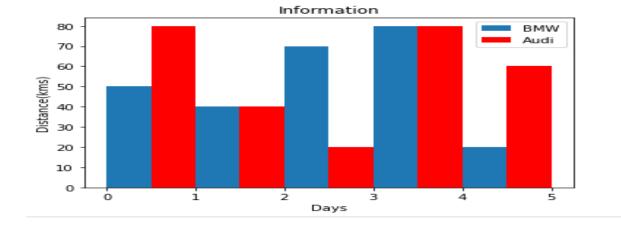
## **IOT LAB: 39**

DATE: 2-01-2021

### TASK 1: CREATE BAR GRAPH USING MATPLOTLIB

```
from matplotlib import pyplot as plt
plt.bar([0.25,1.25,2.25,3.25,4.25],[50,40,70,80,20],label="BMW",width=.5)
plt.bar([0.75,1.75,2.75,3.75,4.75],[80,40,20,80,60],label="Audi",color='r',width=.5)
plt.legend()
plt.xlabel('Days')
plt.ylabel('Distance(kms)')
plt.title('Information')
plt.show()
```

### **OUTPUT:**



### TASK 2: USE SEABORN LIBRARY

```
import pandas
import matplotlib
import seaborn as sns
print(sns.get_dataset_names())
```

DATE: 2-01-2021

## **OUTPUT:**

['anagrams', 'anscombe', 'attention', 'brain\_networks', 'car\_crashes', 'diamonds', 'dots', 'exercis e', 'flights', 'fmri', 'gammas', 'geyser', 'iris', 'mpg', 'penguins', 'planets', 'tips', 'titanic']

```
1 from matplotlib import pyplot as plt
2 import seaborn as sns
3 df=sns.load_dataset('car_crashes')
4 print(df.head())
5 plt.scatter(df.speeding,df.alcohol)
6 plt.show()
```

DATE: 2-01-2021

#### **OUTPUT:**

6

4

2

```
total speeding alcohol not_distracted no_previous ins_premium

    18.8
    7.332
    5.640
    18.048
    15.040

    18.1
    7.421
    4.525
    16.290
    17.014

0
                                                                  784.55
1
                                                                 1053.48
                      5.208
2
   18.6
            6.510
                                      15.624
                                                    17.856
                                                                  899.47
   22.4
            4.032 5.824
                                      21.056
                                                    21.280
                                                                  827.34
                                       10.920
                                                    10.680
   12.0
             4.200
                       3.360
                                                                  878.41
   ins_losses abbrev
       145.08
1
       133.93
                   ΑK
2
       110.35
                  ΑZ
3
       142.39
                  AR
       165.63
                  CA
 10
  8
```

# DATE: 2-01-2021

### TASK 4: LOAD DATA SET AND CREATE DATA SET USING SEABORN

```
import matplotlib.pyplot as plt
import seaborn as sns
sns.set_context('paper')
titanic=sns.load_dataset('titanic')
sns.barplot(x='embark_town',y='age',data=titanic,palette='pink',ci=None)
plt.show()
print(titanic.columns)
```

#### **OUTPUT:**

