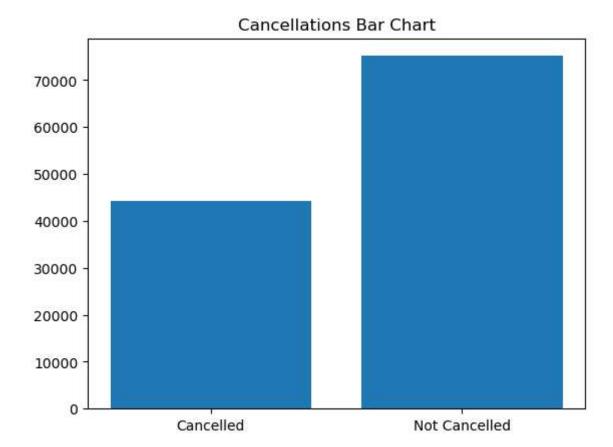
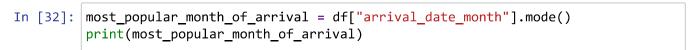
```
In [2]:
          from matplotlib import pyplot as plot
          import numpy as np
 In [3]:
          import pandas as pd
 In [4]:
 In [6]:
          document = pd.read_csv(r'C:\Users\bonin\Downloads\booking_of_hotel.csv')
 In [7]:
         df = pd.DataFrame(document)
 In [8]:
         df.head()
 Out[8]:
              hotel is_canceled lead_time arrival_date_year arrival_date_month arrival_date_week_numbe
             Resort
                             0
                                     342
                                                   2015
                                                                      July
                                                                                              2
              Hotel
              Resort
                             0
                                     737
                                                   2015
                                                                                              2
                                                                      July
              Hotel
              Resort
                             0
                                      7
                                                   2015
                                                                      July
                                                                                              2
              Hotel
              Resort
                             0
                                      13
                                                   2015
                                                                      July
                                                                                              2
              Hotel
              Resort
                             0
                                                   2015
                                                                                              2
                                      14
                                                                      July
              Hotel
          5 rows × 32 columns
In [11]:
          number of hotel bookings = len(df.index)
          print(number_of_hotel_bookings)
          119390
          number of cancellations = len(df[df['is canceled'] != 0])
In [14]:
          print(number_of_cancellations)
          44224
In [16]:
          number_of_noncancellations = len(df[df['is_canceled'] == 0])
          print(number_of_noncancellations)
          75166
          cancel_array = [number_of_cancellations, number_of_noncancellations]
In [21]:
```

```
In [26]: plot.bar(["Cancelled", "Not Cancelled"], cancel_array)
    plot.title("Cancellations Bar Chart")
```

Out[26]: Text(0.5, 1.0, 'Cancellations Bar Chart')



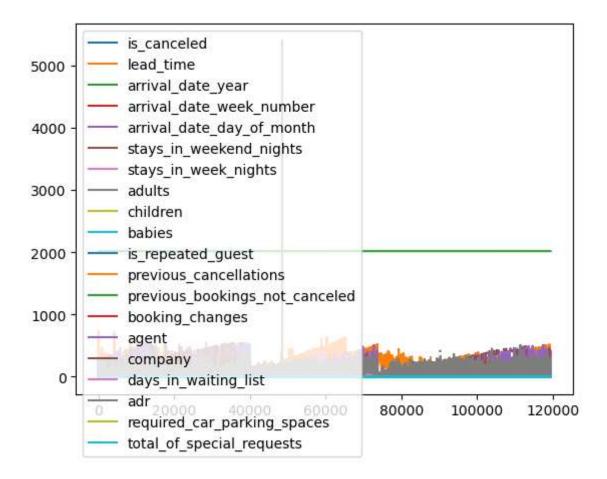


0 August

Name: arrival\_date\_month, dtype: object

```
In [51]: #plot.hist(df["arrival_date_month"], rwidth=0.1)
df.plot()
```

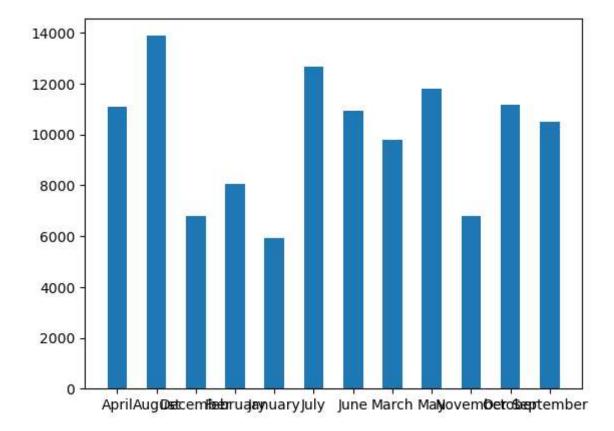
Out[51]: <Axes: >



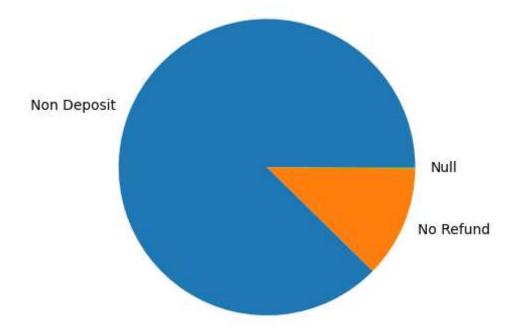
```
In [57]: month_array = np.array(document.arrival_date_month)
month, count = np.unique(month_array, return_counts=True)
```

In [65]: plot.bar(month, count, width=0.5)

Out[65]: <BarContainer object of 12 artists>



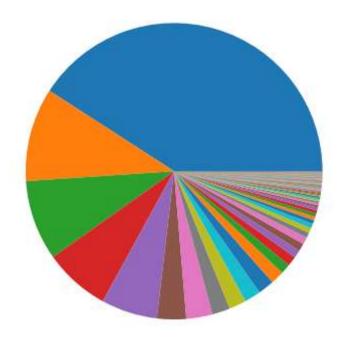




```
In [87]: plot.pie(df["country"].value_counts())
    plot.title("Country distribution")
```

Out[87]: Text(0.5, 1.0, 'Country distribution')

## Country distribution



In [ ]: