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In [67]: ▶ import matplotlib.pyplot as plt
```

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In [68]: ▶ import pandas as pd
```

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In [69]: ▶ import numpy as np
```

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In [70]: ▶ import seaborn as sns
```

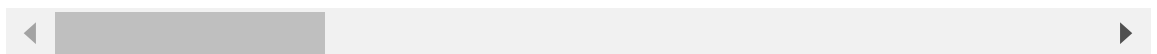
```
In [71]: ▶ bookingData=pd.read_csv(r"C:\Users\ghadi\Desktop\School\ML\booking_of_hotel.csv")
```

```
In [72]: ▶ bookingData.head(5)
```

Out[72]:

	hotel	is_canceled	lead_time	arrival_date_year	arrival_date_month	arrival_date_week_i
0	Resort Hotel	0	342	2015	July	
1	Resort Hotel	0	737	2015	July	
2	Resort Hotel	0	7	2015	July	
3	Resort Hotel	0	13	2015	July	
4	Resort Hotel	0	14	2015	July	

5 rows × 32 columns

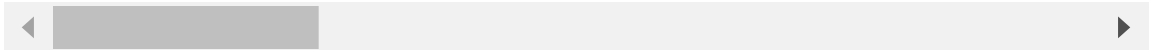


In [73]: `bookingData.tail()`

Out[73]:

	hotel	is_canceled	lead_time	arrival_date_year	arrival_date_month	arrival_date_we
119385	City Hotel	0	23	2017	August	
119386	City Hotel	0	102	2017	August	
119387	City Hotel	0	34	2017	August	
119388	City Hotel	0	109	2017	August	
119389	City Hotel	0	205	2017	August	

5 rows × 32 columns



In [74]: `canc = bookingData['is_canceled'].value_counts()`

In [75]: `canc`

Out[75]:

0	75166
1	44224

Name: is_canceled, dtype: int64

In [76]: `meanAdults = bookingData['adults'].mean()`

In [77]: `print(meanAdults)`

1.8564033838679956

In [78]: `meanStays = bookingData['stays_in_week_nights'].mean()`

In [79]: `print(meanStays)`

2.500301532791691

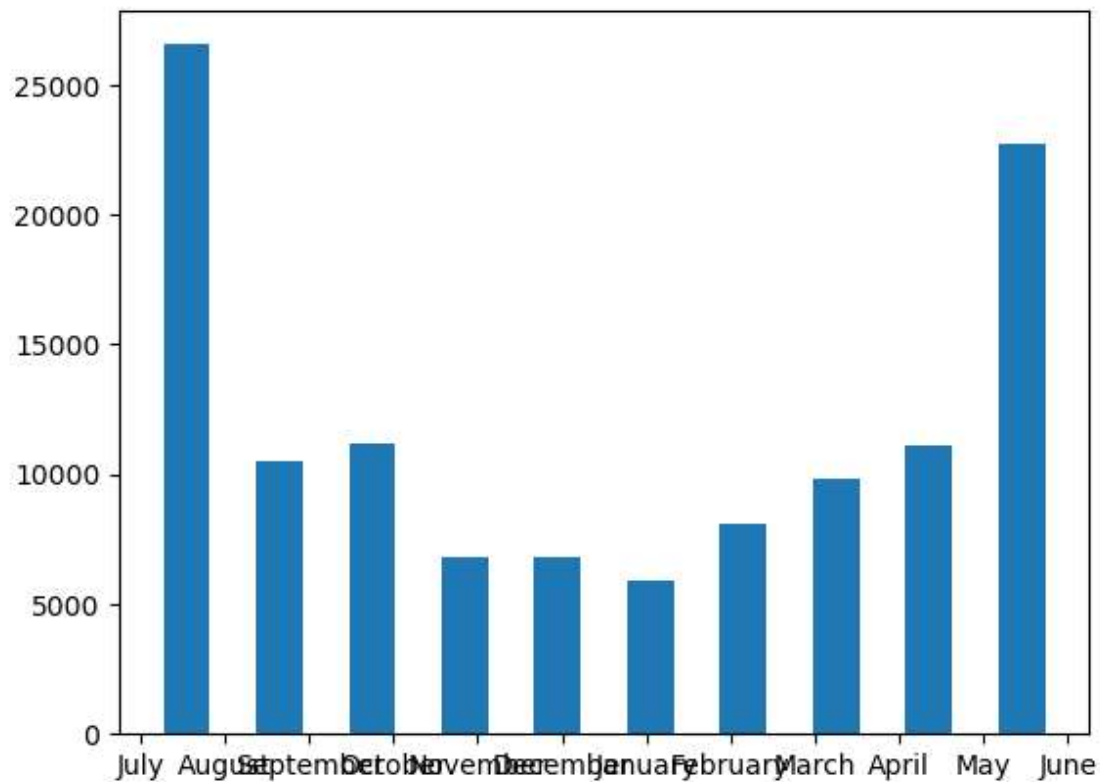
In [80]: `modeArrivalMonth = bookingData['arrival_date_month'].mode()`

In [81]: `print(modeArrivalMonth)`

0 August
Name: arrival_date_month, dtype: object

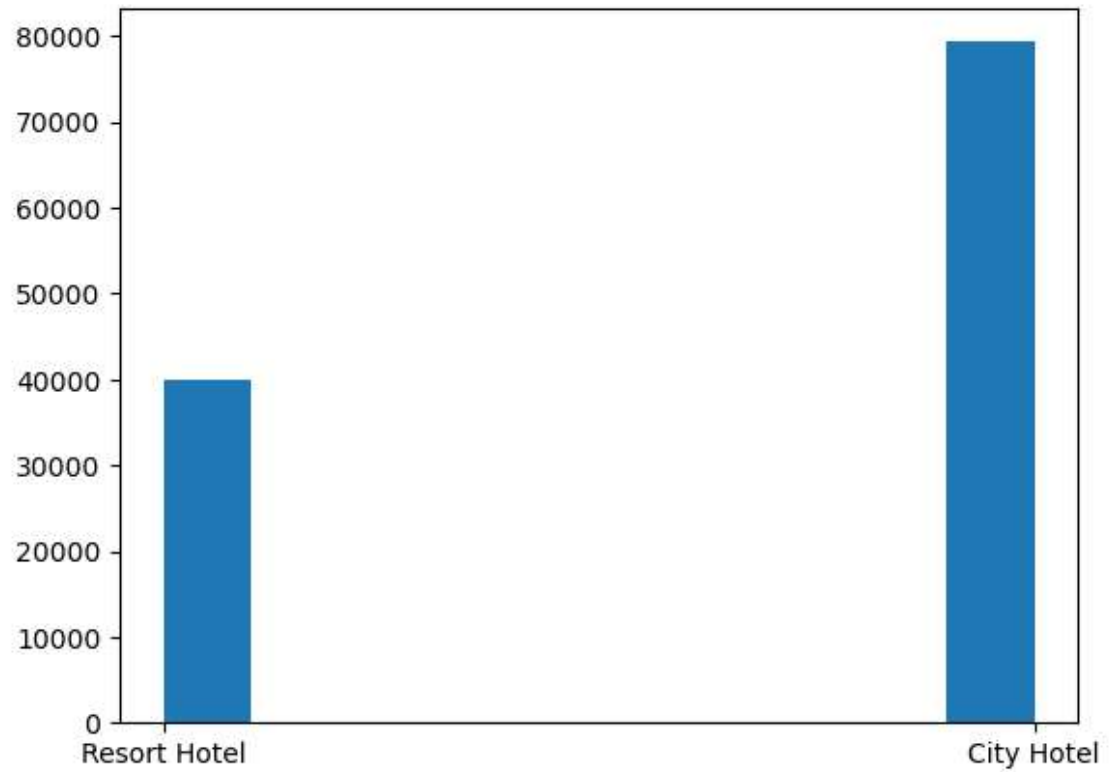
```
In [86]: plt.hist(bookingData['arrival_date_month'],rwidth=0.5)
```

```
Out[86]: (array([26538., 10508., 11160., 6794., 6780., 5929., 8068., 9794.,  
          11089., 22730.]),  
array([ 0. ,  1.1,  2.2,  3.3,  4.4,  5.5,  6.6,  7.7,  8.8,  9.9, 11. ]),  
<BarContainer object of 10 artists>)
```



```
In [90]: ▶ plt.hist(bookingData['hotel'])
```

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Out[90]: (array([40060.,    0.,    0.,    0.,    0.,    0.,    0.,    0.,  
                0., 79330.]),  
array([0. , 0.1, 0.2, 0.3, 0.4, 0.5, 0.6, 0.7, 0.8, 0.9, 1. ]),  
<BarContainer object of 10 artists>)
```



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In [ ]: ▶
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