In [2]:
```
'''LEVEL 02 - TASK 01'''

'''Task: Table Booking and Online Delivery

-->Determine the percentage of restaurants that
offer table booking and online delivery.

-->Compare the average ratings of restaurants
with table booking and those without.

-->Analyze the availability of online delivery
among restaurants with different price ranges.'''
```

In [ ]:
```
import pandas as pd
import matplotlib.pyplot as plt
data = pd.read_csv('Dataset.csv')
```

In [3]:
```
# Determine the percentage of restaurants that offer table booking and online deliv
table_booking_percentage = data['Has Table booking'].value_counts(normalize=True) *
online_delivery_percentage = data['Has Online delivery'].value_counts(normalize=Tru
```

In [4]:
```
print(f"Percentage of restaurants offering table booking:")
print(table_booking_percentage)

print(f"Percentage of restaurants offering online delivery:")
print(online_delivery_percentage)
```

```
Percentage of restaurants offering table booking:
No     87.875615
Yes    12.124385
Name: Has Table booking, dtype: float64
Percentage of restaurants offering online delivery:
No     74.337766
Yes    25.662234
Name: Has Online delivery, dtype: float64
```

In [6]:
```
# Compare the average ratings of restaurants with table booking and those without
average_rating_with_table_booking = data[data['Has Table booking'] == 'Yes']['Aggre
average_rating_without_table_booking = data[data['Has Table booking'] == 'No']['Agg
```

In [7]:
```
print(f"Average rating of restaurants with table booking: {average_rating_with_tabl
print(f"Average rating of restaurants without table booking: {average_rating_withou
```

```
Average rating of restaurants with table booking: 3.44
Average rating of restaurants without table booking: 2.56
```

In [8]:
```
# Analyze the availability of online delivery among restaurants with different pric
online_delivery_by_price_range = data.groupby('Price range')['Has Online delivery']

print("Percentage of restaurants offering online delivery by price range:")
print(online_delivery_by_price_range)
```

```
Percentage of restaurants offering online delivery by price range:
Has Online delivery         No        Yes
Price range
1                    84.225923  15.774077
2                    58.689367  41.310633
3                    70.809659  29.190341
4                    90.955631   9.044369
```

In [9]:
```
# Plot the availability of online delivery by price range
online_delivery_by_price_range.plot(kind='bar')
```

```
plt.xlabel('Price Range')
plt.ylabel('Number of Restaurants with Online Delivery')
plt.title('Availability of Online Delivery by Price Range')
plt.show()
```

In [ ]:

In [ ]:

In [ ]: