Task 1

Create a bar chart or histogram to visualize the distribution of a categorical or continuous variable, such as the distribution of ages or genders in a population.

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```
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
import seaborn as sns
data=pd.read_csv("/content/pizza.csv")
data.head(5)
```

	order_details_id	order_id	pizza_id	quantity	order_date	order_time	unit_price	total_price	pizza_size	pizza_category	pizza_ingredients	pizza_name
0	1	1	hawaiian_m	1	1/1/2015	11:38:36	13.25	13.25	M	Classic	Sliced Ham, Pineapple, Mozzarella Cheese	The Hawaiian Pizza
1	2	2	classic_dlx_m	1	1/1/2015	11:57:40	16.00	16.00	M	Classic	Pepperoni, Mushrooms, Red Onions, Red Peppers,...	The Classic Deluxe Pizza
2	3	2	five_cheese_l	1	1/1/2015	11:57:40	18.50	18.50	L	Veggie	Mozzarella Cheese, Provolone Cheese, Smoked Go...	The Five Cheese Pizza
3	4	2	ital_supr_l	1	1/1/2015	11:57:40	20.75	20.75	L	Supreme	Calabrese Salami, Capocollo, Tomatoes, Red Oni...	The Italian Supreme Pizza
4	5	2	mexicana_m	1	1/1/2015	11:57:40	16.00	16.00	M	Veggie	Tomatoes, Red Peppers, Jalapeno Peppers, Red O...	The Mexicana Pizza

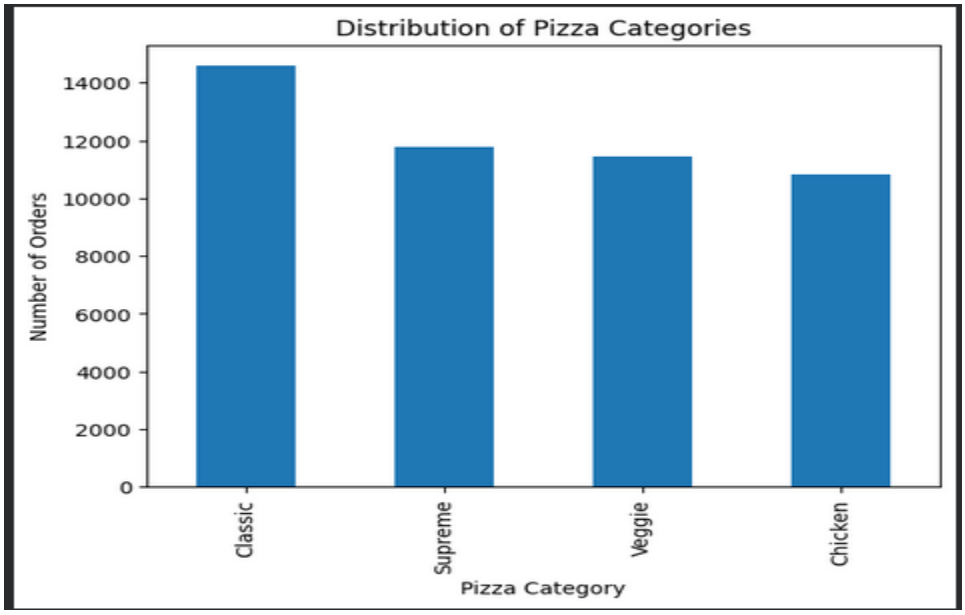
Task-01 (Option 1): Bar Chart Distribution of Pizza Categories (Categorical Variable)

```
# Count number of orders in each pizza category
category_counts = data['pizza_category'].value_counts()

# Create bar chart
plt.figure()
category_counts.plot(kind='bar')

# Labels and title
plt.xlabel("Pizza Category")
plt.ylabel("Number of Orders")
plt.title("Distribution of Pizza Categories")

# Show plot
plt.show()
```



Task-01 (Option 2): Histogram Distribution of Total Price (Continuous Variable)

```
plt.figure()
plt.hist(data['total_price'], bins=20)

# Labels and title
plt.xlabel("Total Price")
plt.ylabel("Frequency")
plt.title("Distribution of Total Price")

# Show plot
plt.show()
```