Practical 4

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Roll no: 342

Batch: C2

File: /content/Copy of coffee.csv

Copy of coffee.csv ×

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Country of Origin	Number of Bags	Bag Weight	Aroma	Flavor	Aftertaste	Acidity	Balance	Sweetness	Moisture Percentage	Color	Category Two Defects
Colombia	1	35 kg	8.58	8.5	8.42	8.58	8.42	10	11.8	green	3
Taiwan	1	80 kg	8.5	8.5	7.92	8	8.25	10	10.5	blue-green	0
Laos	19	25 kg	8.33	8.42	8.08	8.17	8.17	10	10.4	yellowish	2
Costa Rica	1	22 kg	8.08	8.17	8.17	8.25	8.08	10	11.8	green	0
Colombia	2	24 kg	8.33	8.33	8.08	8.25	7.92	10	11.6	yellow-green	2
Guatemala	5	30 kg	8.33	8.33	8.25	7.83	8.17	10	10.7	green	2
Taiwan	1	27 kg	8.33	8.17	8.08	8	8.25	10	9.1	green	0
Taiwan	1	90 kg	8.25	8.25	8.17	8	8.08	10	10	yellow green	1
Taiwan	1	30 kg	8.08	8.08	8.25	8.08	8	10	10.8	greenish	0
Tanzania, United Republic Of	320	60 kg	8.08	8.17	8.08	8.17	8	10	11	greenish	0
Ethiopia	10	30 kg	8.08	8.25	8	8.08	7.92	10	11.8	greenish	1
Guatemala	5	15 kg	8.08	8	8	7.75	8.17	10	11.5	brownish	1
Taiwan	1	60 kg	8.08	8	8.08	8.08	8	10	11.9	green	0
Ethiopia	40	60 kg	7.67	8.17	8	8.33	8	10	11.6	yellow-green	2
Colombia	70	35 kg	8.08	8	8.08	7.92	8	10	10.6	green	0
Taiwan	1	60 kg	8.17	8.08	8	7.92	7.92	10	10.2	green	0
Ethiopia	8	5 kg	8.17	8.08	7.92	8.17	7.92	10	11.3	green	2
Taiwan	5	2 kg	8	8.17	8	7.92	7.92	10	10.3	yellow-green	0
Taiwan	8	1 kg	8.08	8.17	7.75	7.92	8	10	11	brownish	1
Tanzania, United Republic Of	200	30 kg	8.17	8	7.92	7.92	7.75	10	10	greenish	0
Guatemala	8	30 kg	8	7.92	8.08	7.92	8	10	11.6	yellowish	0
Taiwan	1	20 kg	8.08	8	7.92	7.92	7.83	10	10.4	green	0

Code:

```
import pandas as pd
import numpy as np

# Read the file using pandas
data = pd.read_csv('/content/Copy of coffee.csv')
```

```
median_bags = data['Number of Bags'].median()
print("Median of the number of bags:", median_bags)

mode_bags = data['Number of Bags'].mode().tolist()
print("Mode of the number of bags:", mode_bags)

total_production = data['Number of Bags'].sum()
print("Total production of coffee:", total_production)

mean_acidity = data['Acidity'].mean()
print("Mean of Acidity:", mean_acidity)

lowest_flavor_grade = data['Flavor'].min()
print("Lowest grade for flavor:", lowest_flavor_grade)

highest_moisture_level = data['Moisture Percentage'].max()
print("Highest moisture level:", highest_moisture_level)

countries_yellow_green = len(data[data['Color'] == 'yellow-green'])
print("Number of countries producing yellow-green color coffee:",
countries_yellow_green)

countries_greenish = len(data[data['Color'] == 'greenish'])
print("Number of countries producing greenish color coffee:",
countries_greenish)

lowest_flavor_grade = data['Flavor'].min()
print("Lowest grade for flavor:", lowest_flavor_grade)

countries_no_defect = len(data[data['Category Two Defects'] == 0])
print("Number of countries that have no defect:", countries_no_defect)
```

Output:

```
Median of the number of bags: 4.0
Mode of the number of bags: [1]
Total production of coffee: 1159
Mean of Acidity: 8.01529411764706
Lowest grade for flavor: 7.83
Highest moisture level: 11.9
Number of countries producing yellow-green color coffee: 2
Number of countries producing greenish color coffee: 4
Lowest grade for flavor: 7.83
Number of countries that have no defect: 19
```