Practical No: 5

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Division: C

Batch: C2

Roll no: 335

CSV File:

| | 1 to 25 of 34 entri | | | | | | | | |
|---------------------------------|---------------------|------------|-------|--------|------------|---------|---------|-----------|------|
| Country of Origin | Number of Bags | Bag Weight | Aroma | Flavor | Aftertaste | Acidity | Balance | Sweetness | Moi |
| Taiwan | 1 | 80 kg | 8.5 | 8.5 | 7.92 | 8 | 8.25 | 10 | 10. |
| Costa Rica | 1 | 22 kg | 8.08 | 8.17 | 8.17 | 8.25 | 8.08 | 10 | 11.8 |
| Taiwan | 1 | 27 kg | 8.33 | 8.17 | 8.08 | 8 | 8.25 | 10 | 9.1 |
| Taiwan | 1 | 30 kg | 8.08 | 8.08 | 8.25 | 8.08 | 8 | 10 | 10.8 |
| Tanzania, United Republic Of | 320 | 60 kg | 8.08 | 8.17 | 8.08 | 8.17 | 8 | 10 | 11 |
| Taiwan | 1 | 60 kg | 8.08 | 8 | 8.08 | 8.08 | 8 | 10 | 11.5 |
| Colombia | 70 | 35 kg | 8.08 | 8 | 8.08 | 7.92 | 8 | 10 | 10. |
| Taiwan | 1 | 60 kg | 8.17 | 8.08 | 8 | 7.92 | 7.92 | 10 | 10. |
| Taiwan | 5 | 2 kg | 8 | 8.17 | 8 | 7.92 | 7.92 | 10 | 10. |
| Tanzania, United Republic Of | 200 | 30 kg | 8.17 | 8 | 7.92 | 7.92 | 7.75 | 10 | 10 |
| Guatemala | 8 | 30 kg | 8 | 7.92 | 8.08 | 7.92 | 8 | 10 | 11.9 |
| Taiwan | 1 | 20 kg | 8.08 | 8 | 7.92 | 7.92 | 7.83 | 10 | 10. |
| Taiwan | 4 | 50 kg | 7.83 | 8 | 7.92 | 8 | 7.92 | 10 | 10. |
| Taiwan | 1 | 90 kg | 8.17 | 8.08 | 7.92 | 8 | 7.83 | 10 | 10. |
| Taiwan | 1 | 85 kg | 8 | 8 | 8 | 7.92 | 7.92 | 10 | 10. |
| United States (Hawaii) | 80 | 15 kg | 8 | 7.92 | 8 | 7.83 | 8 | 10 | 9.3 |
| Taiwan | 3 | 48 kg | 8 | 8 | 7.83 | 7.83 | 7.92 | 10 | 11. |

Program:

```
#Read the CSV file into a pandas DataFrame
data= pd.read csv('/content/coffee - coffee.csv')
data.plot()
plt.show()
#.BarChart-Number of bags for each country of origin
country_bags=data.groupby('Country of Origin')['Number of Bags'].sum()
plt.bar(country_bags.index,country_bags.values)
plt.xlabel('Country of Origin')
plt.ylabel('Number of Bags')
plt.title('Number of Bags for each Country of Origin')
plt.xticks(rotation=45)
plt.show()
#.LineChart-Change in aromarating over the dataset
plt.plot(data['Aroma'])
plt.xlabel('Data Point')
plt.ylabel('Aroma Rating')
plt.title('Change in Aroma Rating over the Dataset')
plt.show()
#.Scatter Plot-Relationship between flavor and acidity ratings
plt.scatter(data['Flavor'],data['Acidity'])
plt.xlabel('FlavorRating')
plt.ylabel('AcidityRating')
plt.title('Relationship between Flavor and Acidity Ratings')
plt.show()
#Histogram-Distribution of after tasteratings
plt.hist(data['Aftertaste'],bins=10)
plt.xlabel('After taste Rating')
plt.ylabel('Frequency')
plt.title('Distribution of After taste Ratings')
plt.show()
#.Stacked Bar Chart-Sweetness and moisture percentage for each country of origin
sweetness=data.groupby('Country of Origin')['Sweetness'].sum()
moisture=data.groupby('Country of Origin')['Moisture Percentage'].sum()
plt.bar(sweetness.index,sweetness.values,label='Sweetness')
plt.bar(moisture.index,moisture.values,bottom=sweetness.values,label='MoisturePercentag
e')
plt.xlabel('Country of Origin')
plt.ylabel('Value')
plt.title('Sweetness and Moisture Percentage for each Country of Origin')
plt.xticks(rotation=45)
```

```
plt.legend()
plt.show()

#Density Graph of Acidity
data.Acidity.plot.density(color='green')
plt.title('Density plot for Acidity')
plt.legend()
plt.show()

# Create a horizontal bar plot
plt.barh(data['Color'],data['Aroma'])

# Customize the plot
plt.xlabel("Color")
plt.ylabel("Aroma")

# Display the plot
plt.show()
```

Output:





















