**Exploratory Data Analysis for Data Visualization**

**Total points**3

**1.**

**Question 1**

What type of data does a Bar Chart best represent?

Location Data



Numerical



Categorical



None of the above

**2.**

**Question 2**

What are the total number of columns in the features dataframe after applying one hot encoding to columns Orbits, LaunchSite, LandingPad and Serial .

Here the **features  dataframe consists of the following columns FlightNumber', 'PayloadMass', 'Orbit', 'LaunchSite', 'Flights', 'GridFins', 'Reused', 'Legs', 'LandingPad', 'Block', 'ReusedCount', 'Serial'**

**1 point**



120



80



83



96

**3.**

**Question 3**

The catplot code to show the scatterplot of  FlightNumber vs LaunchSite with x as FlightNumber, and y to Launch Site and hue to 'Class’ is

**1 point**



 sns.catplot(y="LaunchSite",x="FlightNumber",hue="Class", data=df, aspect = 1,kind=’cat’)

plt.ylabel("Launch Site",fontsize=15)

plt.xlabel("Flight Number",fontsize=15)

plt.show()



 sns.catplot(y="LaunchSite",x="FlightNumber",hue="Class", data=df, aspect = 1)

plt.ylabel("Launch Site",fontsize=15)

plt.xlabel("Flight Number",fontsize=15)

plt.show()



sns.catplot(y="LaunchSite",x="FlightNumber",hue="Class", data=df, aspect = 1,kind=’scatter’)

plt.ylabel("Launch Site",fontsize=15)

plt.xlabel("Flight Number",fontsize=15)

plt.show()



sns.catplot(y="LaunchSite",x="FlightNumber",hue="Class", col=”Class”, data=df, aspect = 1)

plt.ylabel("Launch Site",fontsize=15)

plt.xlabel("Flight Number",fontsize=15)

plt.show()