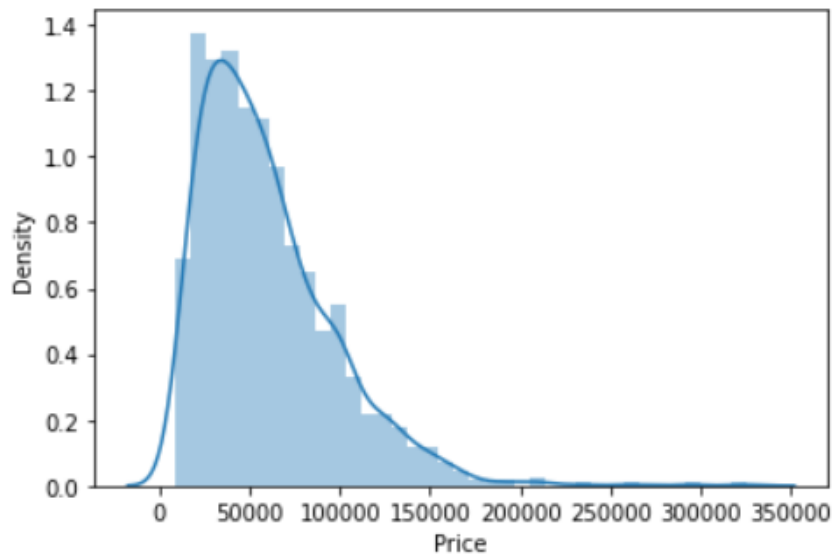# Laptop Price Predictor
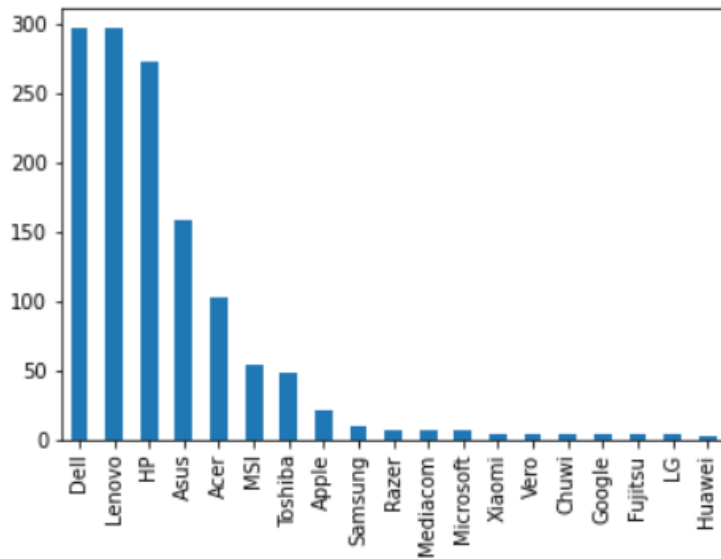
Data Analysis Report

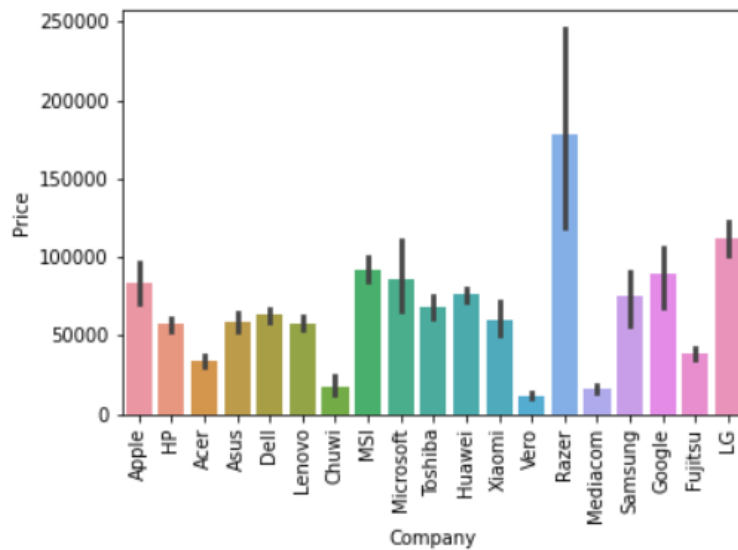**Distribution plot for 'Price' column.**

Observation:-

- The data is right skewed.
- More number of laptops have low price and less number of laptops have high price.

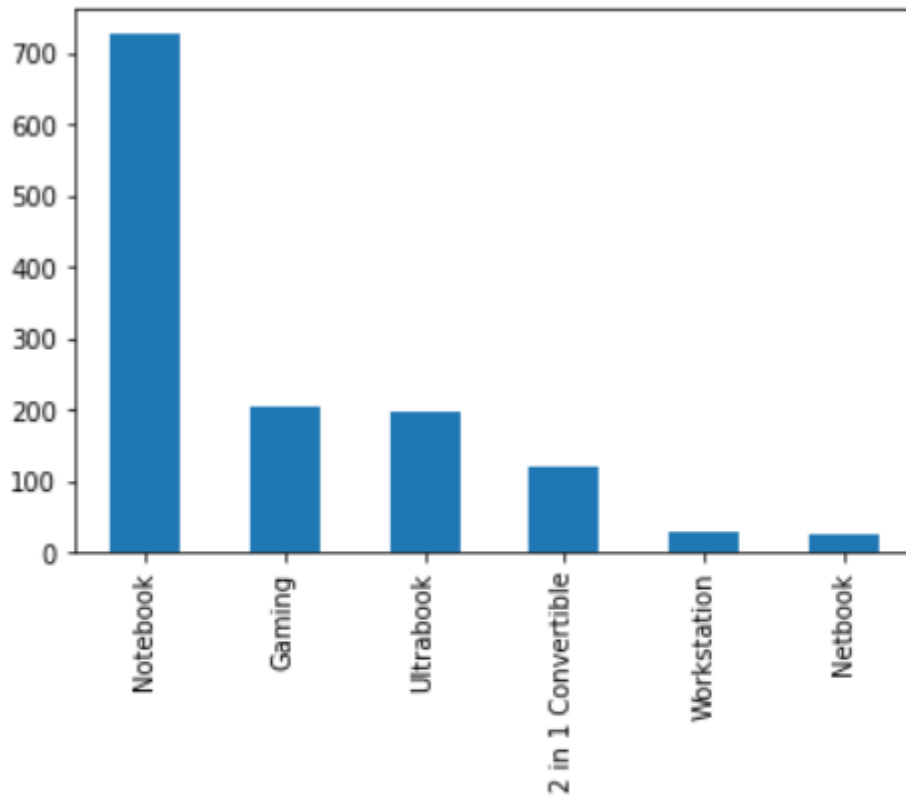**Bar graph for number of laptop for each company.**

Observation:-

- Top 5 company's having maximum number of laptops :- Dell, Lenovo, HP, Asus, Acer.
- Total 86.64% of laptops are from these 5 companies.
- Companines having less than 5 laptops :- Xiaomi, Vero, Chuwi, Google, Fujitsu, LG, Huawei

Bar graph 'Company' VS 'Price'.
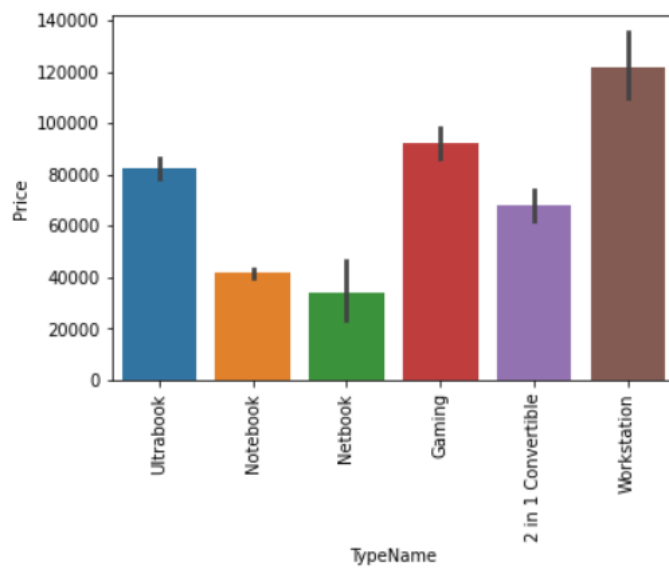
Observation:-

- Top 5 companies with maximum average price of laptops are :- Razor, LG, MSi, Google, Microsoft.
- Laptops with similar average budgeted price :- HP, Asus, Dell, Lenovo, Xiaomi
- Price variation can be seen for different companies.

Bar graph for different types of laptops.
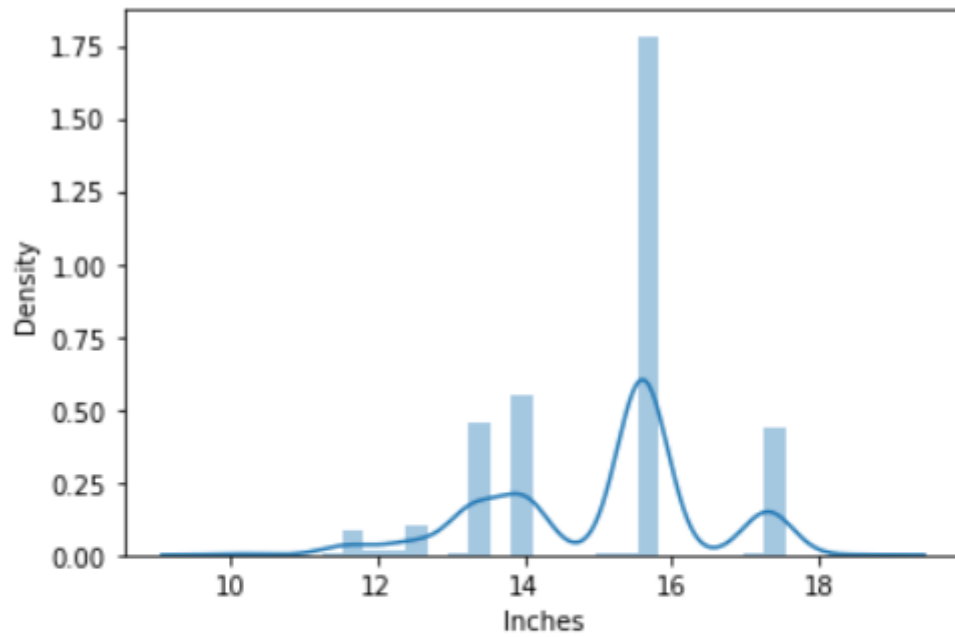
Observation:-

- There are total 6 types of laptops.
- Maximum laptops are of Notebook type.
- Workstation and Netbook type laptops are least in numbers.

Bar graph 'TypeName' VS 'Price'
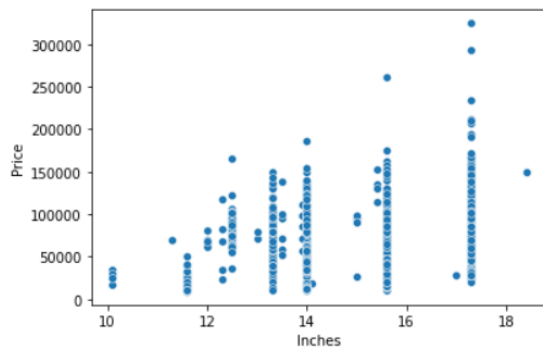
Observation:-

- Top 3 most expensive type of laptops are :- Woekstation, Gaming, Ultrabook with price greater than Rs 80000.
- Type of laptop is affecting the price of laptop.

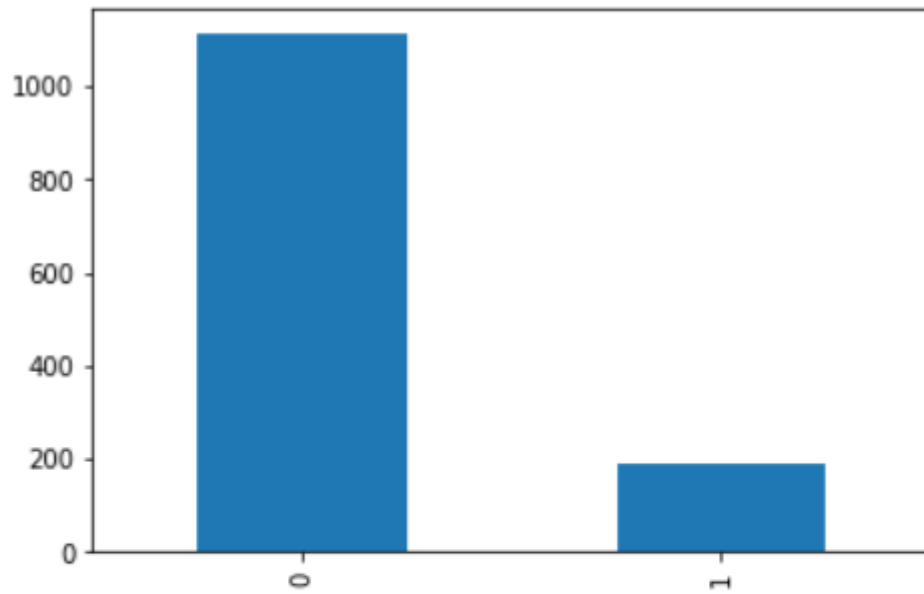## Distribution plot for Inches colunm.

Observation:-

- Most of the laptops are of size 15.6 inches.

Scatterplot 'Inches' vs 'Price'

Observation:-

- With the increase in size the laptop price is increasing but the correlation is not that strong, there is not a very rapid increase in the price.
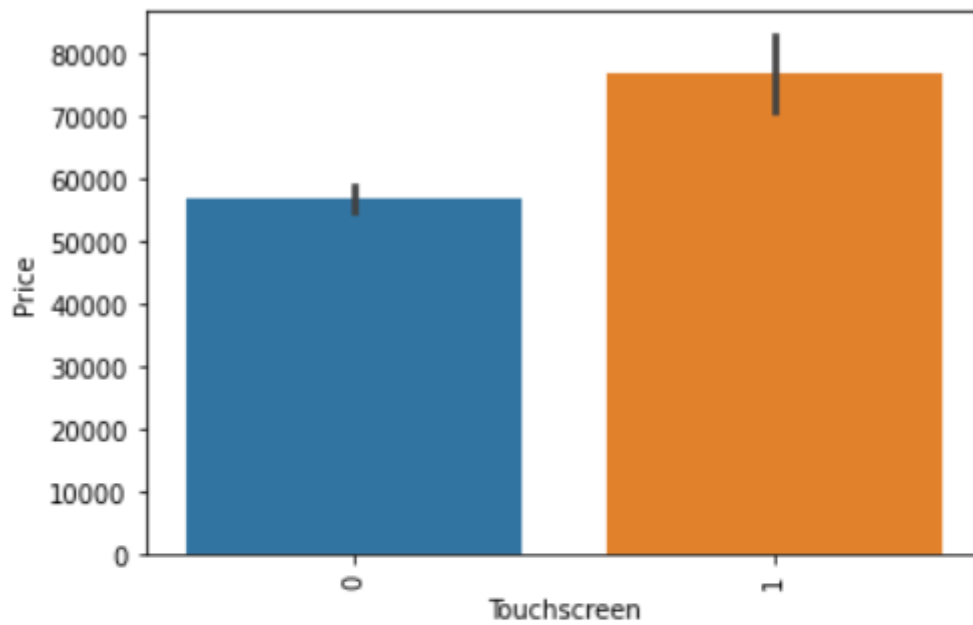- Laptops between size 13-14 inches are similar in prize.

Bar plot for Touchscreen

Observation:-
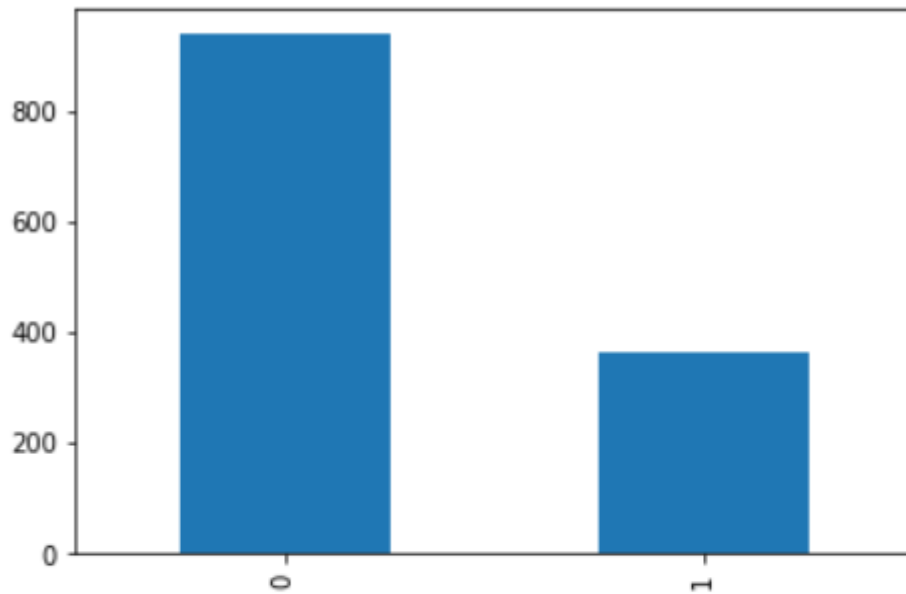
- Majority of laptops are not touchscreen.
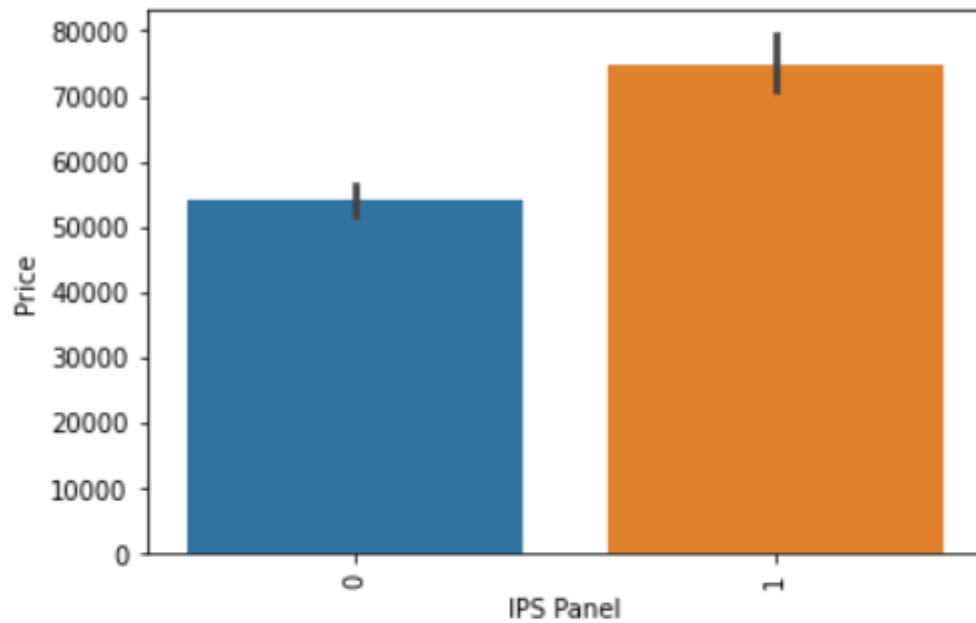
Barplot for 'Touchscreen' vs 'Price'

Observation:-

- Laptops with touchscreen feature are higher in price.
- Price variation can be seen on the basis of touchscreen feature.

Barplot for IPS Panel

Observation:-

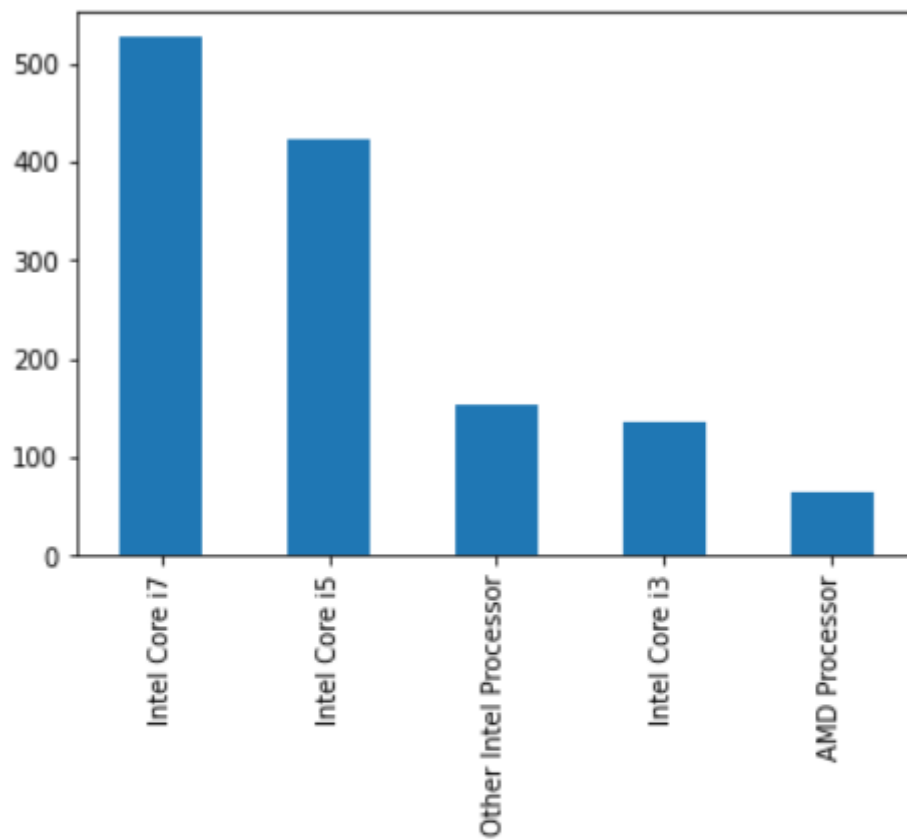- Majority of laptops do not have IPS Panel.
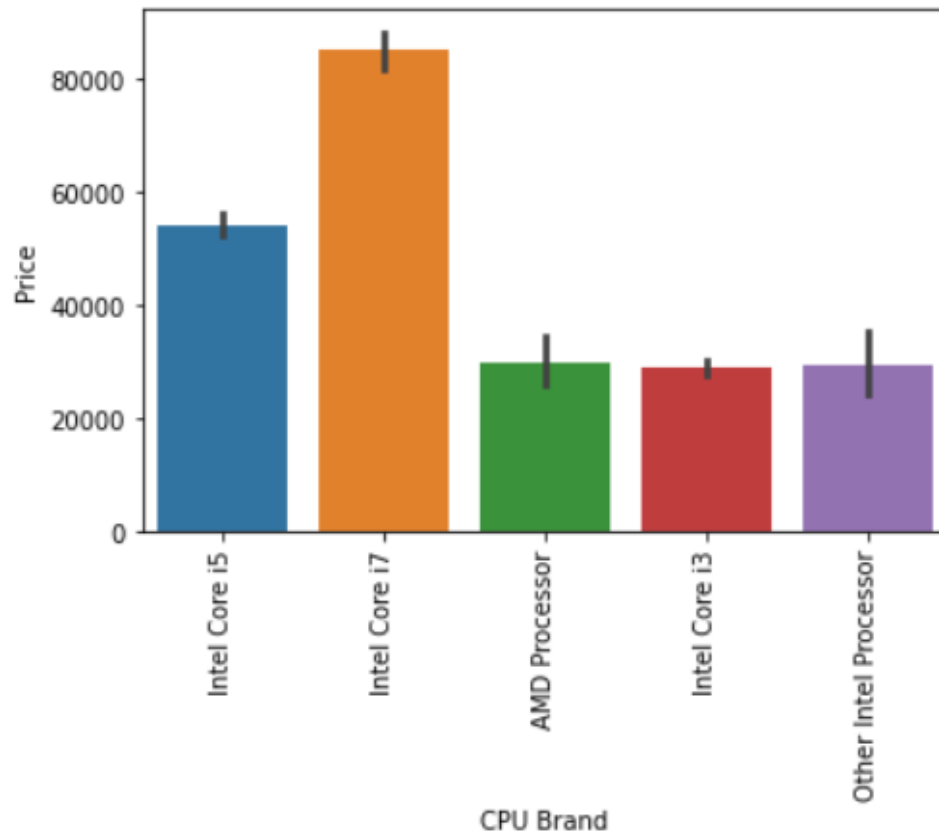
Bar plot for 'IPS Panel' vs 'Price'

Observation:-

- Laptops with IPS Panel have higher price.
- Variation of price with IPS Panel is seen.
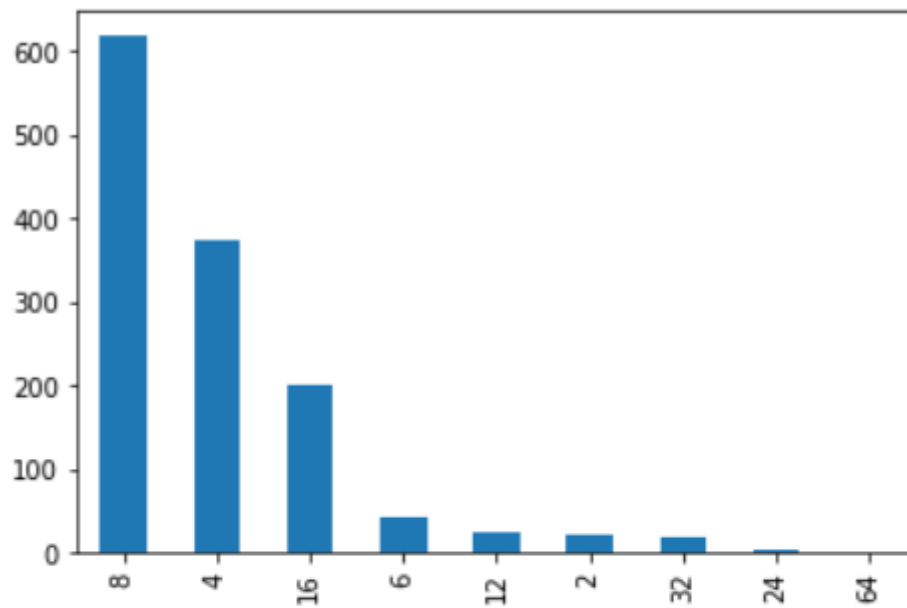
Barplot for CPU Brand

Observation:-

- Majority laptops have Intel Core i7 and Intel Core i5.

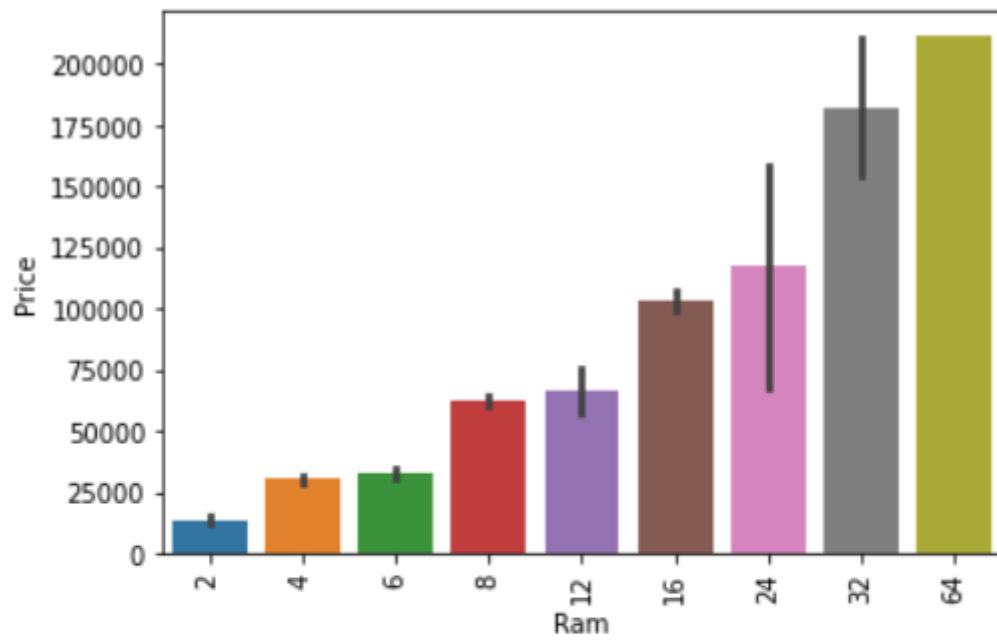**Barplot CPU Brand VS Price**

Observation:-

- Maximum average price if for Intel Core i7, followed by Intel Core i5.
- AMD, Intel Core i3 and Other Intel Processor have similar average price.
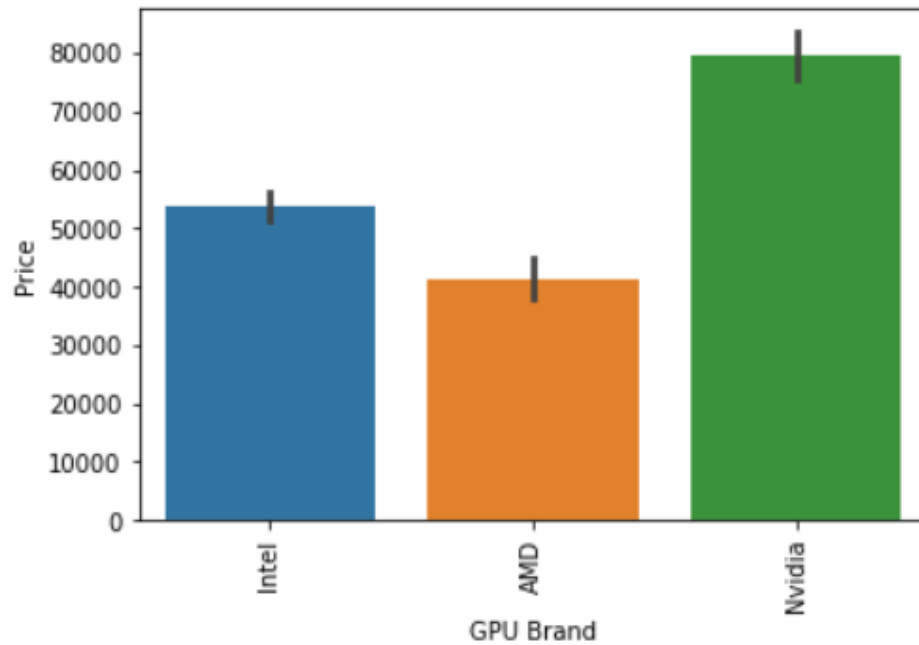
Barplot of Ram

Observation:-

- Majority of laptops have 8GB RAM.
- Followed by 4GB and 16GB.
- Note:- The dataset is old.

Bar plot Ram vs Price

Observation:-

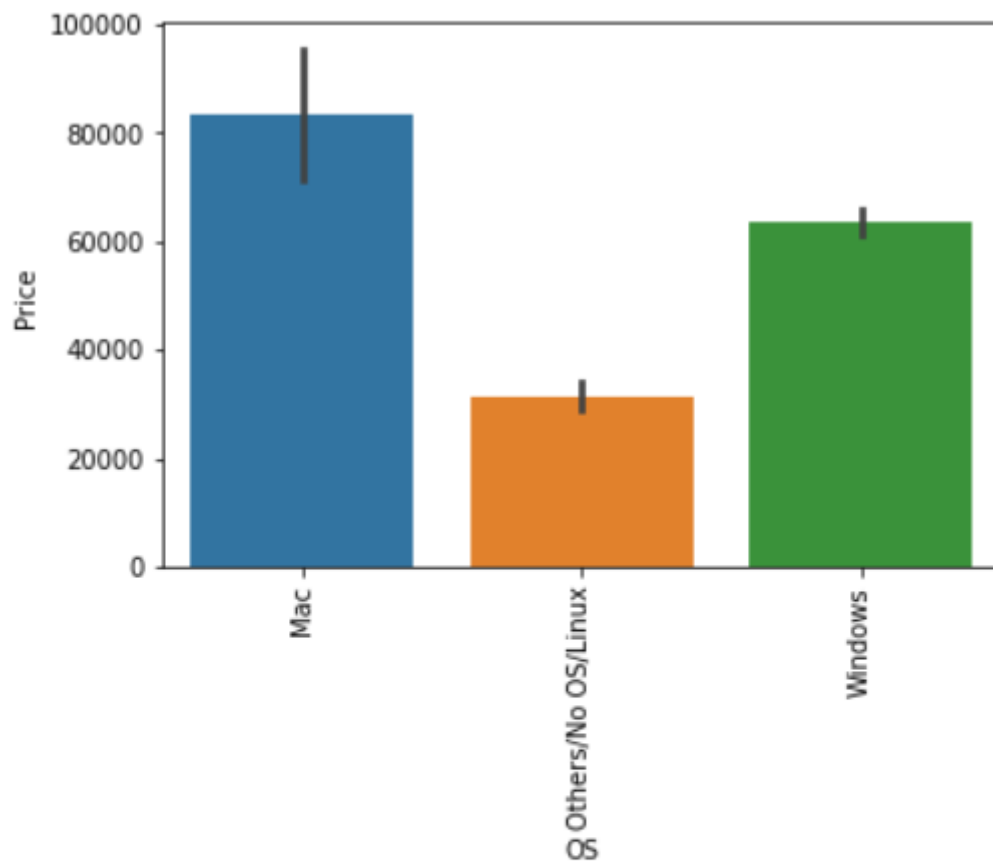- As the RAM size increases, price of laptop also increases.

Bar Plot GPU Brand vs Price

Observation:-

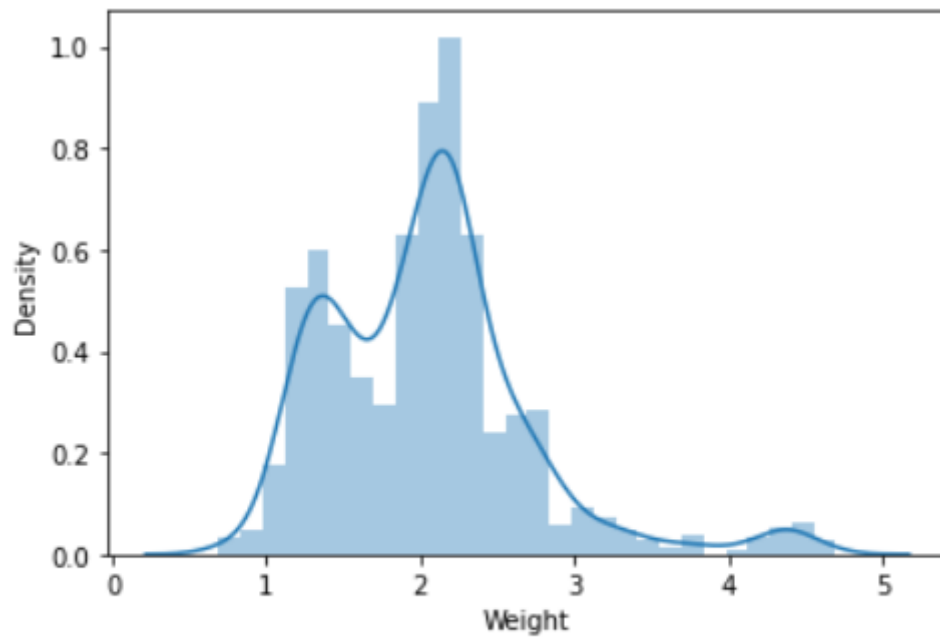- Laptops with NVIDIA GPU has high prices, followed by Intel and then AMD.
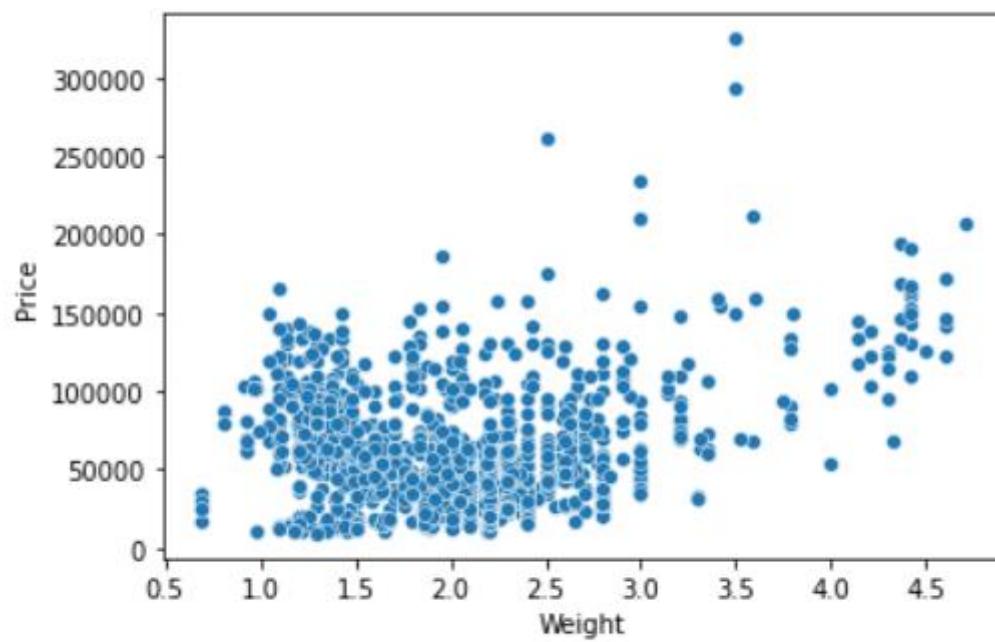
Barplot of OS VS Price

Observation:-

- Laptops with macOS has high prices followed by windows.
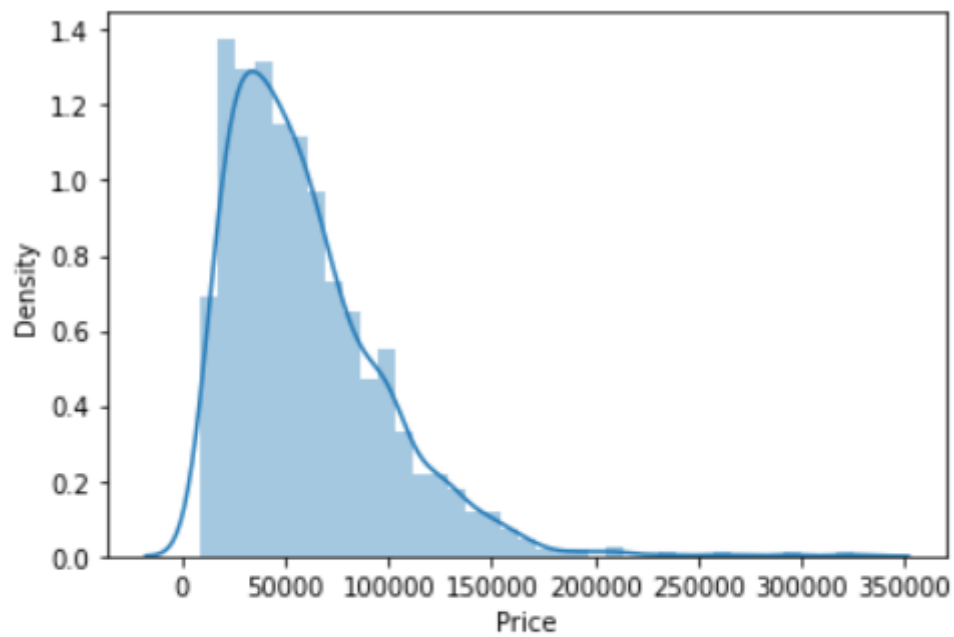
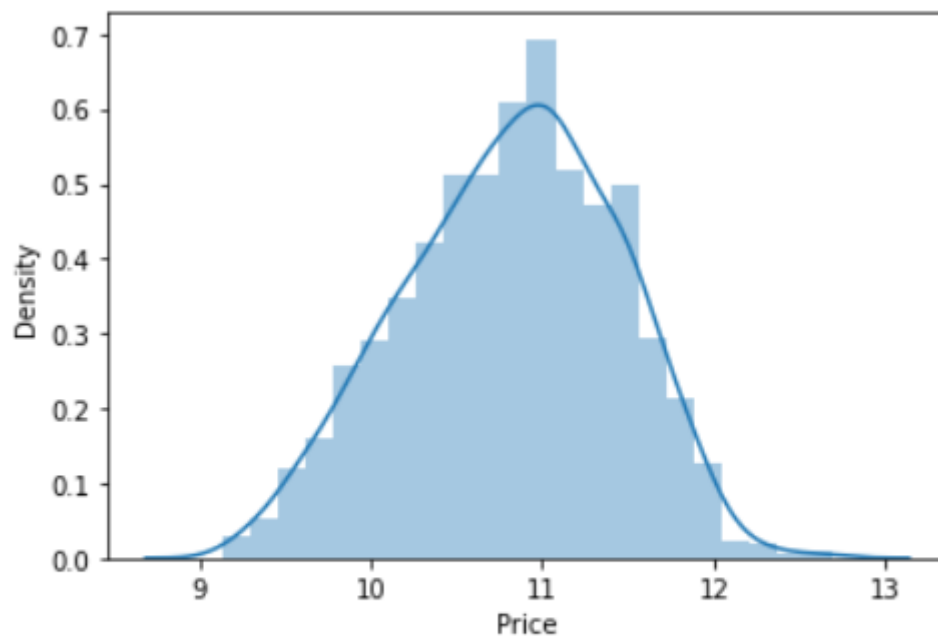**Distribution of laptop weights.**

Scatterplot of laptop weights.

Distribution plot of Price

Observation:-

- Price column is right skewed.

Applying log transformation to Price