# 20181CSE0621

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7 - CSE - 10

```
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
%matplotlib inline
plt.style.use(['dark_background','seaborn-pastel','fivethirtyeight'])
```

# Part C Question 2

Note : Taking year as 2016 as values in question are missing.

```
d={"Year":['2010','2011','2012','2013','2014','2015','2016'],"Price in Lakhs":[87,90,92,92,94,95,96]}
df = pd.DataFrame(d)
print(df)
```

```
   Year  Price in Lakhs
0  2010              87
1  2011              90
2  2012              92
3  2013              92
4  2014              94
5  2015              95
6  2016              96
```

# Making year as index

```
```

```
df["Year"] = pd.to_datetime(df["Year"])
df = df.set_index("Year")
print(df)
```

```
                Price in Lakhs
     Year
     2010-01-01              87
     2011-01-01              90
     2012-01-01              92
     2013-01-01              92
     2014-01-01              94
     2015-01-01              95
     2016-01-01              96
```

```
with plt.style.context('dark_background'):
  plt.figure(figsize=(12, 8))
  plt.xticks(fontsize=14) ; plt.yticks(fontsize=14)
  plt.xlabel("Year",size=20)
  plt.ylabel("Price in Lakhs",size=20)
  plt.title("Visualizing the Plot")
  plt.plot(df["Price in Lakhs"],color='cyan',linewidth='3',label='Price in lakhs')
  plt.legend()
  plt.grid(False)
  plt.show()
```