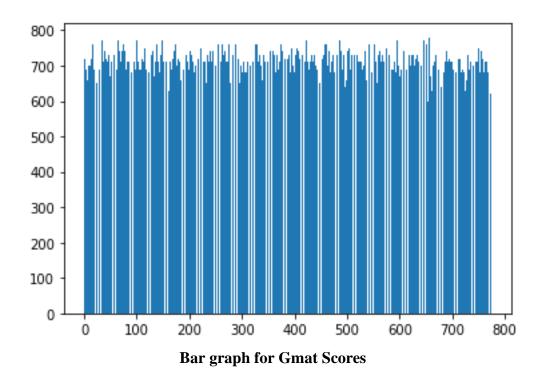
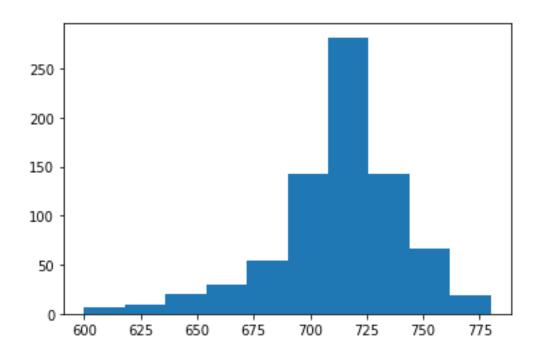
Practical No. 01

Code: import pandas as pd # Read data into Python education = pd.read_csv("D:\Desktop files\DESKTOP DEC 2021\Basi Statistics_v3\education.csv") type(education) education.info() # C:\Users\education.csv - this is windows default file path with a '\' # C:\\Users\\education.csv - change it to '\\' to make it work in Python # Exploratory Data Analysis # Measures of Central Tendency / First moment business decision education.workex.mean() education.gmat.mean() # '.' is used to refer to the variables within object education.workex.median() education.workex.mode() max(education.workex) min(education.workex) max(education.gmat) min(education.gmat) r = max(education .workex)-min(education .workex)print(r) # pip install numpy from scipy import stats stats.mode(education.workex) # Measures of Dispersion / Second moment business decision education.workex.var() # variance education.workex.std() # standard deviation education.gmat.var() education.gmat.std() range = max(education.workex) - min(education.workex) # range

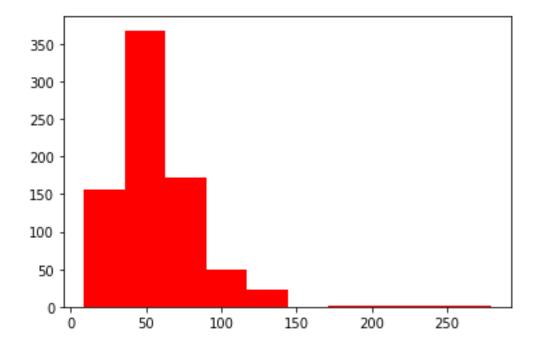
```
range
y=min(education.workex)
print(y)
x=max(education.workex)
print(x)
# Third moment business decision
education.workex.skew()
education.gmat.skew()
# Fourth moment business decision
education.workex.kurt()
# Data Visualization
import matplotlib.pyplot as plt
import numpy as np
education.shape
plt.bar(height = education.gmat, x = np.arange(1, 774, 1)) # initializing the parameter
plt.hist(education.gmat) #histogram
plt.hist(education.workex)
plt.hist(education.workex, color='red')
help(plt.hist)
plt.boxplot(education.gmat) #boxplot
help(plt.boxplot)
```

Outputs:

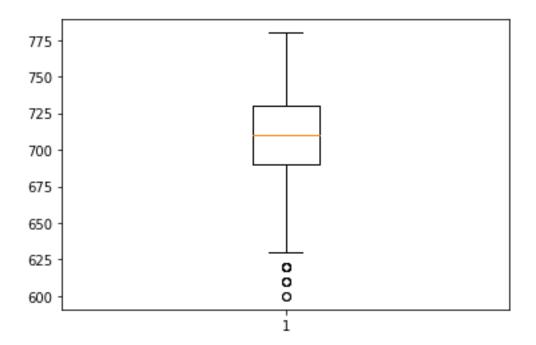




Histogram for Gmat Scores



Histogram for Workex



Box-Plot for Gmat Scores