- 1. Generate a random expenditure set data and find out measures of central tendency
 - a. Using external libraries and
 - b. Without using in external libraries
- 2. Generate an array of 200 random integers in between the range and find the most occurring value
 - a. Using external libraries
 - b. without using external libraries
- 3. Consider a list of random integers and calculate the measures of variation
- 4. Create a dataframe out of the dictionary and get the descriptive statistics of the dataframe sample = data = {'name': ['Ram', 'Shyam', 'Radha', 'Jan', 'Hari'],

'age': [42, 52, 36, 24, 73], 'preTestScore': [4, 24, 31, 2, 3], 'postTestScore': [25, 94, 57, 62, 70]}

5. Read the data from the below link

https://drive.google.com/file/d/1sxQUteWWGIB_zrQSMYMi6egT-uZKVUSc/view?usp=sharing

Calculate the descriptive statistics of the dataframe and check

- whether the data is following normal distribution
- correlation between the columns in the dataset
- 6. Explain about the types of data with examples
- 7. What is the probability range of any event?
- 8. The following table contains the different age group peoples who have defaulted and not defaulted on Loans.

		Age			
		Young	Middle-Aged	Senior Citizens	Total
Loan Default	No	10503	27368	259	38130
	Yes	3,586	4,851	120	8557
	Total	14089	32219	379	46687

Table - 1

Converting the above table into probabilities

		Age	Age		
		Young	Middle-Aged	Senior Citizens	Total
Loan Default	No	0.225	0.586	0.005	0.816
	Yes	0.077	0.104	0003	0.184
	Total	0.302	0.690	0.008	1.000

Table - 2

- Q) What is the probability that a person will not default on the loan given he/she is middle-aged?
- Q) What is the probability that a person is middle-aged given he/she has not defaulted on the loan?
- 9. Take any dataset of your own and Using boxplot, visualize the outliers if present in the dataset?
- 10. Check the data types and get the summary statistics.