**Question 2**

First I have downloaded the dataset from the given link and then started to clean the data by removing all the na values.

A screenshot of a computer

Description automatically generated

A screenshot of a computer

Description automatically generated

A screenshot of a computer

Description automatically generated

**Visualization1:** Here I am plotting a graph between gender and frequency where x- axis showing the category of gender and y-axis showing the count of

A screenshot of a computer

Description automatically generated

From the output we can see that female students are more compared to male students.

**Visualization2:** Here we are comparing the education of parents. In the x-axis I am using parents education and in y- axis I am using count

A screenshot of a computer

Description automatically generated

A graph of different colored columns

Description automatically generated

From the output we can see that students whose parental education is master’s degree is least and bachelor's degree is second least and Group D parents has highest percentage of master’s degree compared to other groups

**Visualization3:** Here I am ploting with scores of math, reading, writing and total score on x-axis and its related frequency distribution on y-axis.

A screenshot of a computer

Description automatically generated

A group of blue and white graphs

Description automatically generated

From the above frequency output, it is clearly showing that most of the students are getting scores in range of 65-80 in each subject which represents that the average marks obtained by students in each subject will be 65+.

**Visualization 4:**  Here I am ploting a pie chart based on the distribution of race among the students whose parents have a masters degree.

A screenshot of a computer

Description automatically generated

A pie chart with different colored circles

Description automatically generated

Group D Parents has the highest masters degree and group A has the least.

**Visualization 5:** Here I am trying to compare based on the student reading score and parents level of education. In the x- axis I am considering parents degree and on y- axis I am considering students reading score.

A screenshot of a computer screen

Description automatically generated

A diagram of a graph

Description automatically generated

From the output we can say that The Reading Score of the students doesn't depend upon the Parental Level of Education.