Ex- 6 Statistical Analysis of qualitative data

Use the survey data in MASS package to do the following:

1. Import the package MASS.
2. List the rows of data that has missing values.
3. Create a data frame 'newsurvey' that contains the survey data after removing the na values. Use it for answering further queries
4. How many male and female students participated in the survey?
5. How many the left and right handers are there?
6. Find the relative frequency distribution of left and right handers and display them with the precision of two decimal places.
7. Display the male left hander and female left hander in the column format.
8. What percentage of male left handers never smokes?
9. Find the range of students' age participated in the survey.
10. Break the age range into non-overlapping sub-intervals by defining a sequence of equal distance break points of 10 by rounding the range to nearest integer.
11. Find the distribution of the age range according to the sub-intervals with cut with its right boundary opened. Display it in column form.
12. Which age range of students has mostly participated in the survey.
13. Similarly, find the frequency distribution of Wr.Hnd span and display it in column format.
14. Find the relative frequency of Wr.Hnd and display it by correcting to 3 decimal places.
15. Find the average age of the students participated in the survey.
16. Compute the standard deviation and variance of the height of the students participated in the survey.
17. Compute the quartile of wirte hand span.
18. Find the correlation between write hand span and pulse rate of the students.
19. Find the average age of the students based on how often the student exercises.
20. Find the standard deviation of height of the students under different categories of span of non-writing hand.
21. Obtain the summary statistics of pulse rate of the students.