Ex-4(b) Basic Operations in data frame

MASS package contains a data frame called 'survey' which contains the responses of 237 Statistics I students at the University of Adelaide to a number of questions.

The components of the data frame are:

- Sex The sex of the student. (Factor with levels "Male" and "Female".)
- Wr.Hnd span (distance from tip of thumb to tip of little finger of spread hand) of writing hand, in centimetres.
- NW.Hnd span of non-writing hand.
- W.Hnd writing hand of student. (Factor, with levels "Left" and "Right".)
- Fold "Fold your arms! Which is on top" (Factor, with levels "R on L", "L on R", "Neither".)
- Pulse pulse rate of student (beats per minute).
- Clap 'Clap your hands! Which hand is on top?' (Factor, with levels "Right", "Left", "Neither".)
- Exer how often the student exercises. (Factor, with levels "Freq" (frequently), "Some", "None".)
- Smoke how much the student smokes. (Factor, levels "Heavy", "Regul" (regularly), "Occas" (occasionally), "Never".)
- Height height of the student in centimetres. M.I whether the student expressed height in imperial (feet/inches) or metric (centimetres/metres) units. (Factor, levels "Metric", "Imperial".)
- Age age of the student in years.

Do the following:

- 1. Install the package MASS.
- 2. Import the package MASS.
- 3. Display the structure of the data survey.
- 4. Check the class and type of the data set survey in MASS.
- 5. Get the number of rows and columns of the survey data frame.
- 6. Get the dimension of the survey data frame.
- 7. Provide the statistical summary of the data frame.
- 8. Display the column names of the survey data frame
- 9. Retrieve the top 3 rows from the data frame.
- 10. Extract the bottom 2 rows from the data frame.