**Homework number 2**

Deadline 02/04/2022

The homework has to be send to the tutor using the email address:

[mst2.tutor@gmail.com](mailto:mst2.tutor@gmail.com)

the object of the email has to be “Surname H2”

The dataset Dataset17032022.sav contains the responses to the questionnaire **Guests’ Attitudes towards Sustainable Supply Chain Practices in the Hospitality Industry**.

|  |  |
| --- | --- |
| **Variable** | **Label** |
| a\_1 | Use natural cleaning alternatives (e.g. lemon juice, vinegar, salt) |
| a\_2 | Purchase environmentally friendly products |
| a\_3 | Avoid purchasing overly packaged products |
| a\_4 | Use natural products in hotel rooms/restaurant |
| a\_5 | Purchase organic certified food |
| a\_6 | Use compact energy saving fluorescent lighting |
| a\_7 | Implement an energy saving program |
| a\_8 | Use solar power instead of fuel |
| a\_9 | Use water-saving flush in bathrooms |
| a\_10 | Provide information on public transportation, walking and cycling routes |
| a\_11 | Develop an environmental policy |
| a\_12 | Communicate the environmental policy to customers |
| a\_13 | Promote membership of environmental bodies/charities |
| a\_14 | Re-use foil, paper, envelopes, and menus |
| G1 | Gender |
| G2 | Marital status |
| G3 | Age (in years, level) |
| G4 | Income in levels |
| G5 | Educational attainment |
| G6 | Environmentalist level |

1) Choose and analyze one variable among the a\_1-a\_14 through the frequency table and the appropriate plot. Adequately comment on the results.

2) Evaluate the reliability of the variables test a\_1-a\_14. Comment out properly the result.

3) The a\_1-a\_14 variables are on a Likert scale. Build a variable that measures The Perception of the Hotel’s Efforts towards the Environment (Environment’s Perception) as the sum of the variables from a\_1 to a\_14.

4) Describe the variable “Environment’s Perception” according to the statistical techniques you know (Plot, Mean, Median, Variability ecc.).

5) Using the ANOVA, find the difference in Means for the “Environment’s Perception” respect to Gender, Marital status, Age, Income, Educational attainment, Environmentalist level. Comment out properly the results