**Primary research on saving habits**

**Deadline and presentations: 10th June**

**Work in groups of 3 students**

You are conducting a research on the subject of saving habits of citizens of some region. You will need to analyse data and prepare a research report with the following structure:

1. Introduction and literature review

Introduce the topic of your research. Formulate a specific research question here, and refer to scientific articles, books and other sources you have read on this subject. Please make sure you have at least three references here.

*To formulate research question you may want to look at what data you have. Data is provided in a separate Excel file called “Data 2024”.*

1. Methodology

In this section explain simple random sampling, making sure to point out advantages and disadvantages of this approach in comparison with other sampling techniques.

1. Results

Excel file “Data 2024” contains data for 2000 citizens. This is your population. Use simple random sampling to select a sample of 100 citizens. This is your data, which you will work on for the rest of this task.

Use tables and/or graphs to present your data (the sample of 100).

Calculate appropriate descriptive statistics to summarise central tendency and variation of your data. Explain your results.

Use statistical inference methods to calculate confidence interval for population mean, and test hypothesis for one mean and two means. It is up to you which groups and variables you are going to investigate, and which confidence levels and significance levels you will use. You can also state p-value for your tests. Remember to state the hypotheses that you are testing and your conclusion.

1. Discussion

Consider possible errors at each stage of research (use your imagination as to what the errors could have been), describe them and explain how they could be avoided in the future.

1. Literature

Prepare a list of references that you have used in your report.

Prepare your report in Word or other text editor of your choice. Email your file to [anna.gierusz@ug.edu.pl](mailto:anna.gierusz@ug.edu.pl) by 10th June. Please make sure the name of your file contains your name(s).

On 10th June you will make a short presentation of your report (you can, but you do not have to prepare PowerPoint slides).