Exercise plan no. 4 in Macroeconomics 1
Labor market
(classes in the computer lab)
I. Labour supply

GUS (definitions): https://stat.gov.pl/en/metainformation/glossary/terms-used-in-official-statistics/list.html

World Bank: http://databank.worldbank.org/ddp/home.do

Local databank: https://bdl.stat.gov.pl/BDL/start

GUS (bank danych makroekonomicznych): http://bdm.stat.gov.pl/

Eurostat: http://ec.europa.eu/eurostat/data/database

Task 1.
Using data from the World Bank database, compare the share of the working-age population (15-64) in the total population in Poland, Germany, France, Greece, Ukraine, Russia, and Turkey since the 1960s. Make a chart.

Task 2.
Using data from the World Bank database, answer the following question: What was the labor force in Poland like in the second half of the 1980s, and what is it like now? How has the share of women in the professionally active population changed over this time?

Task 3
II. Using data from https://www.populationpyramid.net/pl/polska/2023 , compare the population in Japan, Poland, Venezuela, Ukraine, and Russia. What can you say about the age structure of the countries mentioned?Zatrudnienie i bezrobocie: wielkość i struktura

Task 4.

Using the Local Data Bank, generate charts showing:
        a) Unemployment rate by age and gender (Masovian Voivodeship, age: total, gender: Men choose women; Women choose men, 2010-2018)
        b) Professional activity rate by working age and gender (Province of student's origin, working age, Student's gender, 2010-2018)
        c) Employment rate by age and gender groups (all voivodeships, age: 15-29, gender: total, year: 2018)
        d) Is the increase in long-term unemployment a real problem in Poland (who is more affected by long-term unemployment - women or men)?

Task 5. Using the Local Data Bank, please provide the unemployment rate in the Masovian Voivodeship in 2020 for people of working age of both sexes. Then, please find appropriate data on the number of unemployed and professionally active people in this voivodeship (age, year) and calculate the unemployment rate yourself.

Task 6. In 2016, the Polish government introduced the Family 500+ program. Verify whether media reports on the deactivation of women in the province of West Pomeranian Voivodeship in connection with the introduction of the social program are true. What is the situation in other voivodeships?

Task 7.

Using data from the World Bank database, look for the relationship between the level of GDP growth and the employment rate and unemployment rate. Make a graph for these variables for all European Union countries combined between 1992 and 2017.

III.   Wage dynamics and work efficiency

Task 8.

Using the Central Statistical Office data, please check how much the average monthly gross wages in the enterprise sector changed in the fourth quarter of 2020 (Mazowieckie Voivodeship) compared to the fourth quarter of 2010 and the fourth quarter of 2004. Can any regularities be observed in salary changes during the years between 2005 and 2016? What was inflation like at that time?

Task 9.

Using the Eurostat database, please check what labor productivity per hour worked looked like in Poland, Germany, France and Sweden from 2005 to 2020.