

# Assignment No. 1

## **Task A**

*According to data located [here](#) please apply the following required actions.*

- Feature engineering (at least select 8 variables + Churn variable)
- Convert total charges into categories (discretization)
- Missing values treatment
- Label encoding
- Standardization

*And then get some information from the entire data such as:*

- Relation between each variable and churn
- Relation between each variable and the others

*Then please answer the following questions from the data:*

- 1- How many male customers churned from our company?
- 2- What is the ratio between males and females in our company?
- 3- What is the ratio between churned and others in our company?
- 4- How many senior citizens churned from our company?
- 5- What is the id of the biggest in total charges?
- 6- What is the correlation between monthly charges and total charges?
- 7- What is the average payment per month of all us?