**Assignment**

* How many patients are in each tumor stage category? (2 Marks)
* Given the dataset, how would you filter out patients who did not receive any chemotherapy or radiotherapy? (2 Marks)
* Create a new binary variable indicating whether a patient's tumor is TNBC or not based on ER, PR, and HER2 status. (3 Marks)
* Create a scatter plot to explore the relationship between patient age at diagnosis and survival time. (3 Marks)
* Generate a boxplot to compare the distribution of tumor sizes among different cancer types. (5 marks)
* Use faceting to create multiple scatter plots, each showing the relationship between tumor size and lymph node positivity for a different cancer type. (5 Marks)