PROBLEM STATEMENT

Task 2: You are given a heart_failure_clinical_records_dataset dataset.

Task 2 completion guideline:

- You have to implement NB on this dataset
- Find optimal NB variant
- Find highest accuracy possible
- Follow the steps shown in the session. Come up with additional steps if necessary.
- Write a short discussion on your experiments and results. Discuss the strengths and weaknesses of NB.

Dataset properties:

- - age: age of the patient (years)
- - anaemia: decrease of red blood cells or hemoglobin (boolean)
- - creatinine phosphokinase (CPK): level of the CPK enzyme in the blood (mcg/L)
- - diabetes: if the patient has diabetes (boolean)
- - ejection fraction: percentage of blood leaving the heart at each contraction (percentage)
- - high blood pressure: if the patient has hypertension (boolean)
- - platelets: platelets in the blood (kilo platelets/mL)
- - sex: woman or man (binary)
- - serum creatinine: level of serum creatinine in the blood (mg/dL)
- - serum sodium: level of serum sodium in the blood (mEq/L)
- - smoking: if the patient smokes or not (boolean)
- - time: follow-up period (days)
- - [target] death event: if the patient died during the follow-up period (boolean)
