The dataset "heart.csv" contain 303 records of patients have heart disease or not according

to features in it. You are required to build Logistic Regression model using gradient descent to

predict whether patient have heart disease or not (target) based on 4 predictors (trestbps, chol,

thalach, oldpeak).

1. Implement the gradient descent function to optimize parameters of the function.

b) Calculate error function to see how the error of the hypothesis function changes with every iteration

of gradient descent(hint: you will need to calculate error in every iteration).

c) Use optimized hypothesis function to make predictions on new data.

d) Try different values of learning rate and see how this changes the accuracy of the model.

e) use “sklearn” library