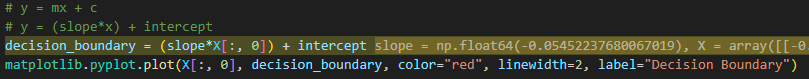
1. # id:25--50—25
   1. Question A
      1. I did X[y==1] and X[y==-1] to separate the positive and negative values from the dataI used matplotlib.pyplot to scatter the positive and negative valuesA green and blue dots

         AI-generated content may be incorrect.
      2. Using sklearn I created a logisticRegression model for the data and printed the Intercept, X1 coefficient and X2 coefficientA black background with white numbers

         AI-generated content may be incorrect. . The X2 coefficient is significantly more impactful than the X1 coefficiend
      3. By recreating y=mx+c using the parameters of the regression model I was able to create the decision\_boundary and plot it on the graph in redA screen shot of a computer screen

         AI-generated content may be incorrect.I then created 4 categories of points depending on the result of the training data and the prediction of the model and colored them accordingly, this completely aligned with the decision boundary, thus proving one another