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[**Note:** Clearly explain each step in code]

1. Consider the iris dataset file given to you and write code for Naive Bayes Classifier in Python. Also explain the code in detail.
   For example steps:

   (a) Separate By Class. **(1)**

   (b) Summarize Dataset. **(1)**

   (c) Summarize Data By Class **(2)**

   (d) Gaussian Probability Density Function. **(2)**

   (e) Class Probabilities. **(2)**

   (2)

   Out put must be in the form of class name. For example:
   Iris-virginica

   = 0
   Iris-setosa

   =1
   Iris-versicolor

   = 2
   Data=[5.7, 2.9, 4.2, 1.3], Predicted: 2.

Best wishes