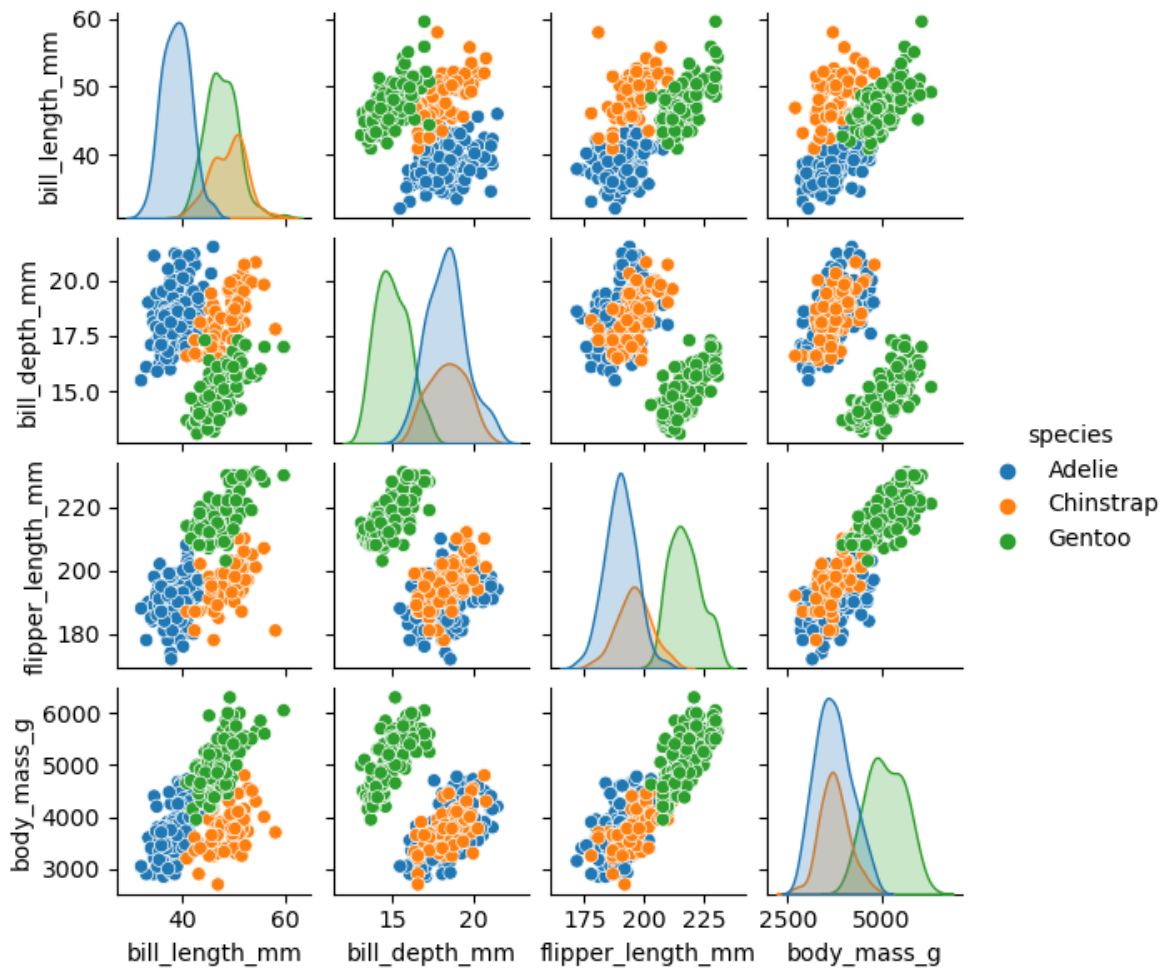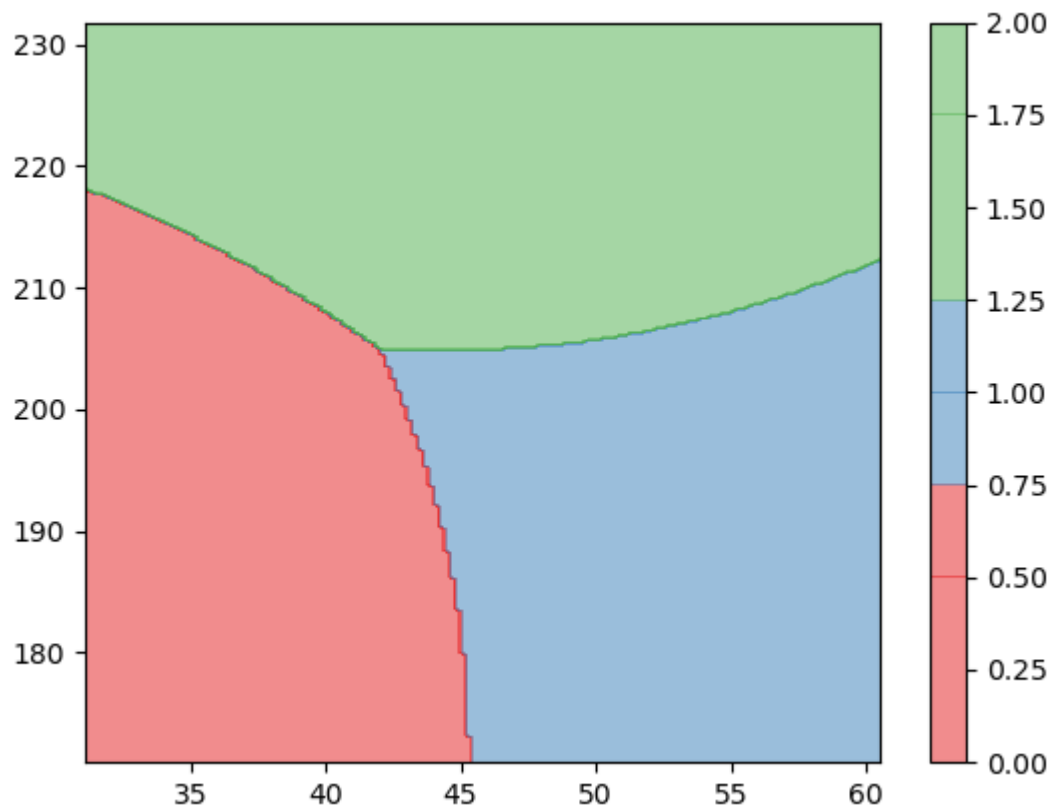Task 1.1
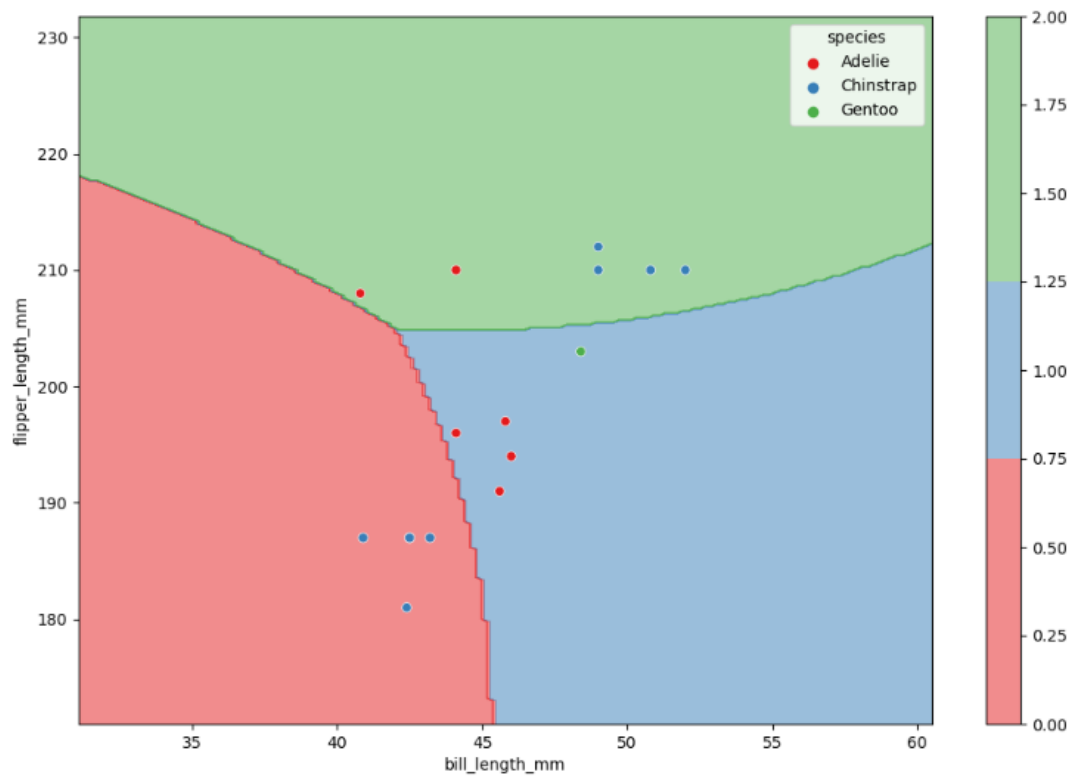

The two features which allow for the most accurate 2-feature GNB classifier were the **bill_length_mm and flipper_length_mm**. The bill_length_mm and flipper_length_mm has graphs that were accurate enough (0.95).
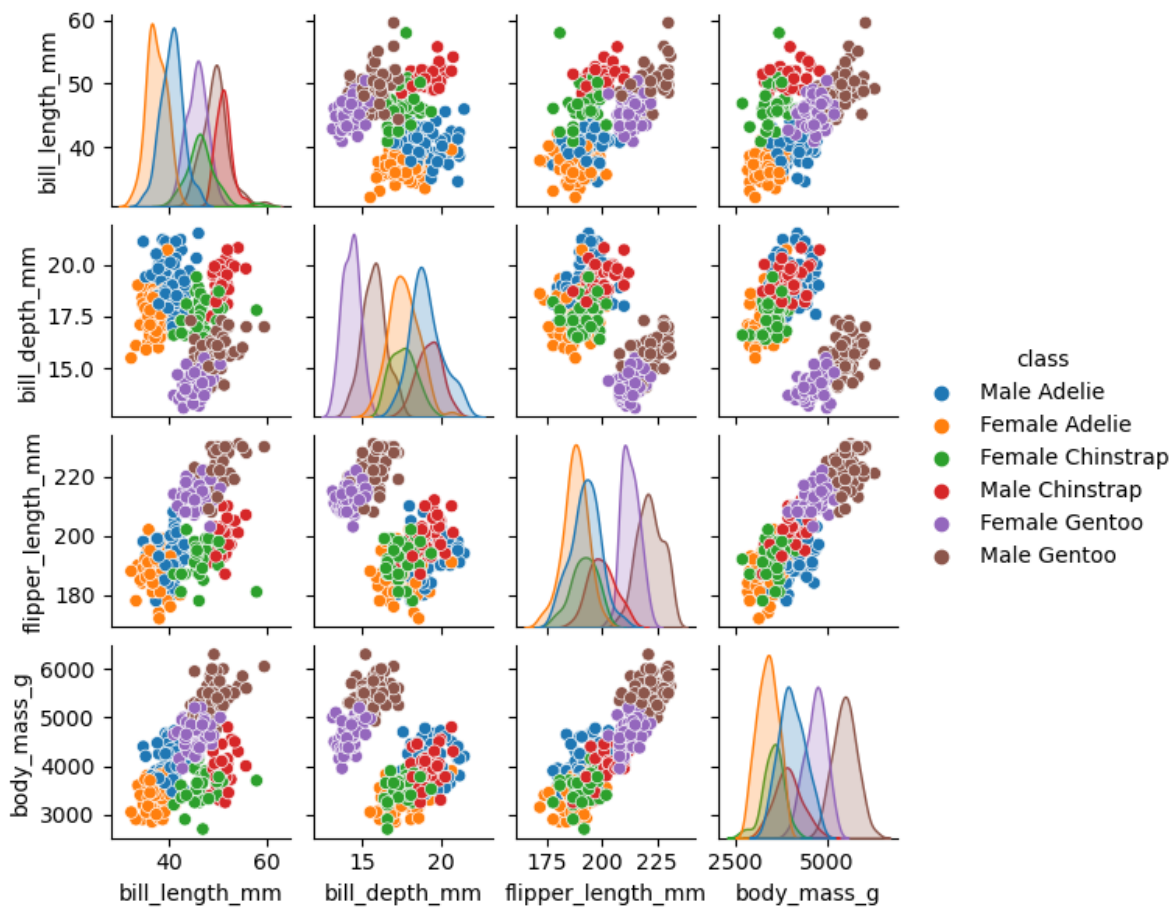
Task 1.3

Task 1.4

Task 1.5

	precision	recall	f1-score	support
Adelie	1.00	0.93	0.96	28
Chinstrap	0.94	0.94	0.94	17
Gentoo	0.92	1.00	0.96	22
accuracy			0.96	67
macro avg	0.95	0.96	0.95	67
weighted avg	0.96	0.96	0.96	67

Task 2.1
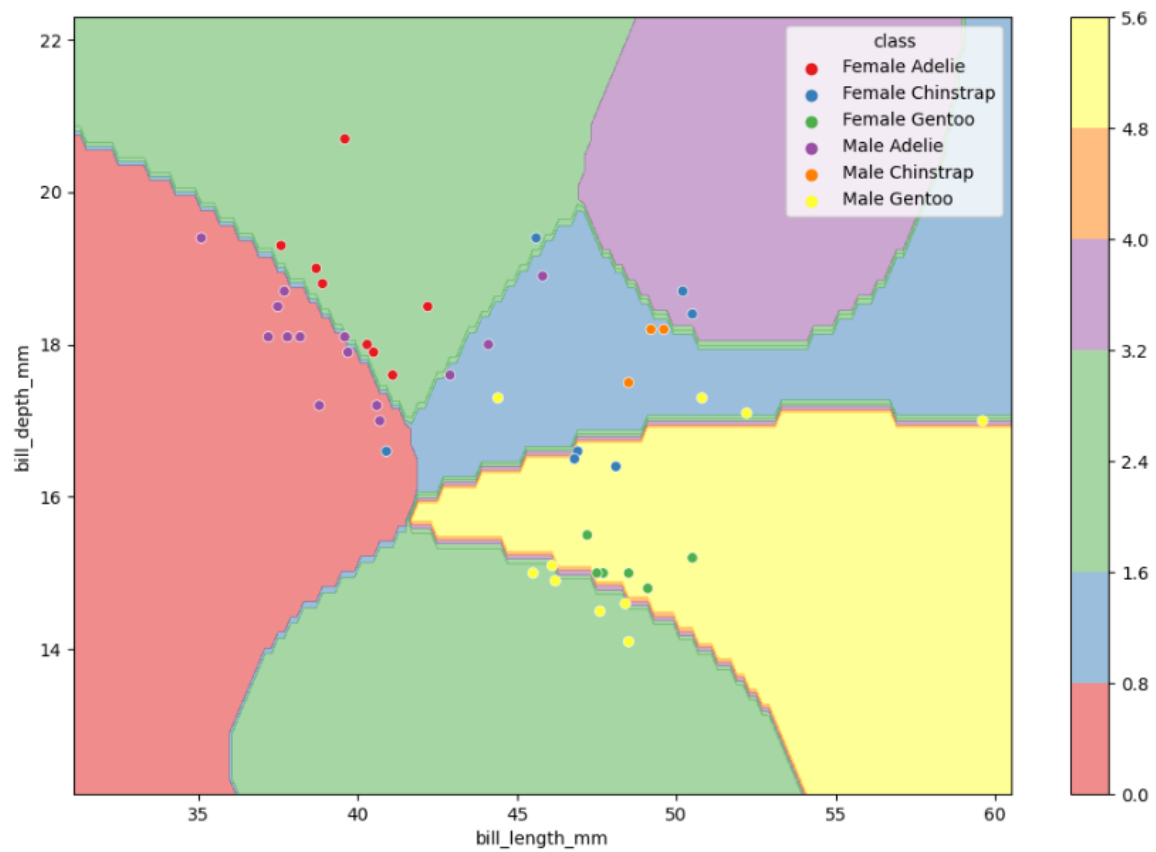

The two features which allow for the most accurate 2-feature GNB classifier were the **bill_length_mm and bill_depth_mm**. The bill_length_mm and bill_depth_mm has graphs that were accurate enough (0.85). The bill_length_mm and bill_depth_mm graphs were separated, and the species don't overlay each other.

Task 2.3

Task 2.4

Task 2.5

	precision	recall	f1-score	support
Female Adelie	0.90	0.90	0.90	10
Female Chinstrap	0.50	0.71	0.59	7
Female Gentoo	1.00	0.93	0.96	14
Male Adelie	0.94	0.94	0.94	18
Male Chinstrap	0.88	0.70	0.78	10
Male Gentoo	0.75	0.75	0.75	8
accuracy			0.85	67
macro avg	0.83	0.82	0.82	67
weighted avg	0.87	0.85	0.86	67