```
 1 C:\Users\rachaellnihalaani\anaconda3\envs\LogisticRegression\python.
   exe C:\Users\rachaellnihalaani\PycharmProjects\LogisticRegression\main
   .py
 2 Logistic Regression
 3
 4 Maximum A Posteriori (MAP) Estimation
 5 After 100 epochs,
 6 For Variance = 0.01:
 7 Training Error: 0.0860, Test Error: 0.1020
 8
 9 For Variance = 0.1:
10 Training Error: 0.0608, Test Error: 0.0620
11
12 For Variance = 0.5:
13 Training Error: 0.0413, Test Error: 0.0560
14
15 For Variance = 1:
16 Training Error: 0.0459, Test Error: 0.0620
17
18 For Variance = 3:
19 Training Error: 0.0493, Test Error: 0.0560
20
21 For Variance = 5:
22 Training Error: 0.0516, Test Error: 0.0700
23
24 For Variance = 10:
25 Training Error: 0.0493, Test Error: 0.0560
26
27 For Variance = 100:
28 Training Error: 0.0493, Test Error: 0.0640
29
30
31
32 Maximum Likelihood (ML) Estimation
33 After 100 Epochs,
34 For Variance = 0.01:
35 Training Error: 0.0401, Testing Error: 0.0460
36 For Variance = 0.1:
37 Training Error: 0.0424, Testing Error: 0.0440
38 For Variance = 0.5:
39 Training Error: 0.0424, Testing Error: 0.0580
40 For Variance = 1:
41 Training Error: 0.0917, Testing Error: 0.1040
42 For Variance = 3:
43 Training Error: 0.0436, Testing Error: 0.0520
44 For Variance = 5:
45 Training Error: 0.0401, Testing Error: 0.0440
46 For Variance = 10:
47 Training Error: 0.0573, Testing Error: 0.0600
48 For Variance = 100:
49 Training Error: 0.0436, Testing Error: 0.0440
50
51 Process finished with exit code 0
```