Logistic Regression

Different values of C taken

C = **0.0000001**
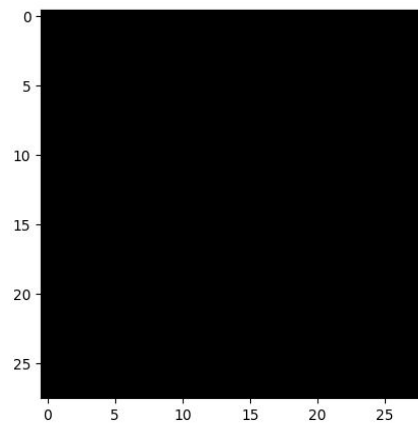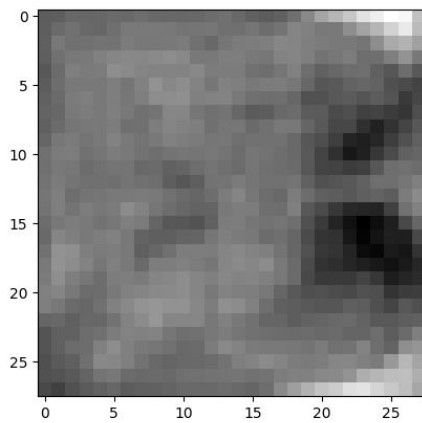
	Ridge	Lasso
Activation Map		
Accuracy	0.955516014235	0.492882562278

| Classification Report | P:- precision
R:- recall
F:- f1-score
S:- support | P:- precision
R:- recall
F:- f1-score
S:- support |

	P	R	F	S
0	0.95	0.96	0.96	554
1	0.96	0.95	0.96	570
avg	0.96	0.96	0.96	1124

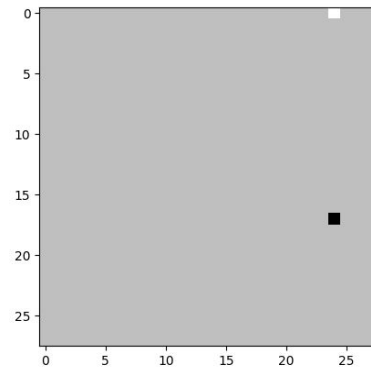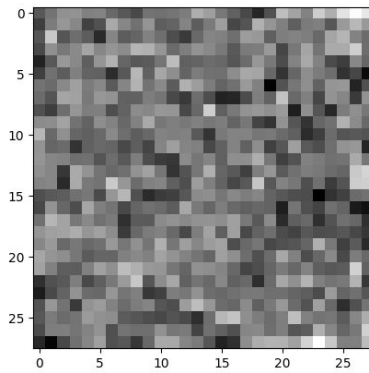|	P	R	F	S
0	0.49	1.00	0.66	554
1	0.00	0.00	0.00	570
avg	0.24	0.49	0.33	1124

Confusion Matrix

[[531 23]
 [27 543]]

[[554   0]
 [570   0]]

C = 0.00001

	Ridge	Lasso
Activation Map		

Accuracy   0.952846975089   0.891459074733

Classification Report

P:- precision
R:- recall
F:- f1-score
S:- support

	P	R	F	S
0	0.96	0.95	0.95	554
1	0.95	0.96	0.95	570
avg	0.95	0.95	0.95	1124

P:- precision
R:- recall
F:- f1-score
S:- support

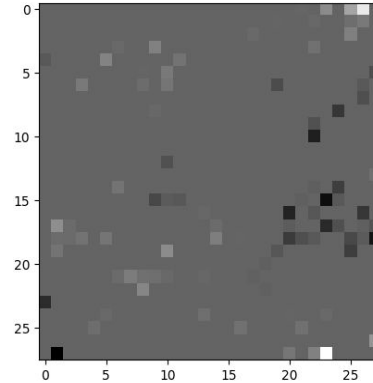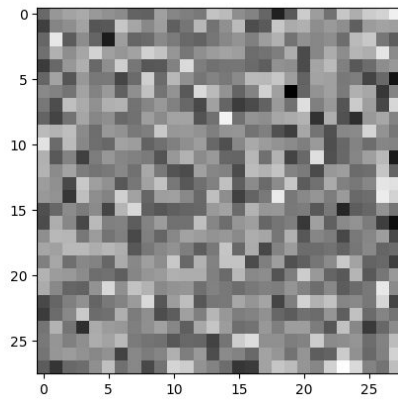|	P	R	F	S
0	0.84	0.96	0.90	554
1	0.95	0.83	0.89	570
avg	0.90	0.89	0.89	1124

Confusion Matrix

[[525 29]
 [24 546]]

[[531 23]
 [99 471]]

C = 0.001

	Ridge	Lasso

Ridge   Lasso

Activation Map

Accuracy   0.936832740214   0.955516014235

Classification   P:- precision   P:- precision
Report   R:- recall   R:- recall
                  F:- f1-score   F:- f1-score
                  S:- support   S:- support

	P	R	F	S
0	0.96	0.96	0.96	554
1	0.96	0.95	0.96	570
avg	0.94	0.94	0.94	570

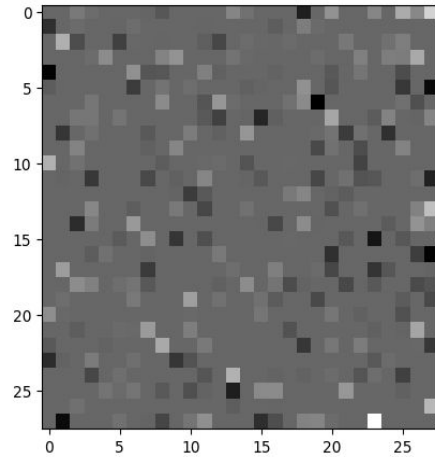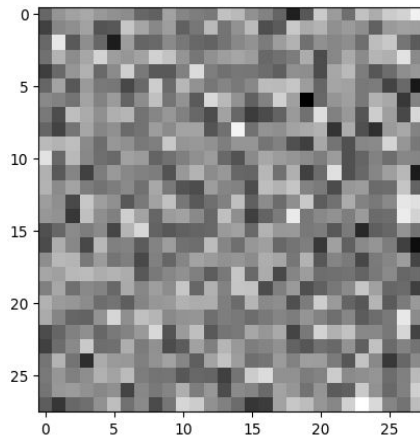|	P	R	F	S
0	0.49	1.00	0.66	554
1	0.00	0.00	0.00	570
avg	0.96	0.96	0.96	1124

Confusion Matrix   [[517 37]   [[526 28]
                    [34 536]]   [22 548]]

C = 0.01

	Ridge	Lasso
Activation Map		

Accuracy	0.936832740214	0.953736654804

Classification Report

P:- precision
R:- recall
F:- f1-score
S:- support

	P	R	F	S
0	0.94	0.94	0.94	554
1	0.94	0.94	0.94	570
avg	0.94	0.94	0.94	1124

P:- precision
R:- recall
F:- f1-score
S:- support

	P	R	F	S
0	0.95	0.95	0.95	554
1	0.95	0.95	0.95	570
avg	0.95	0.95	0.95	1124

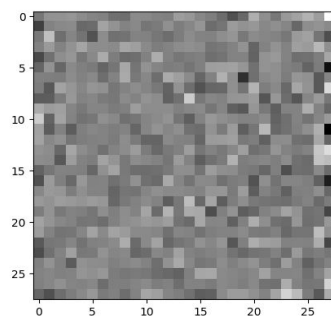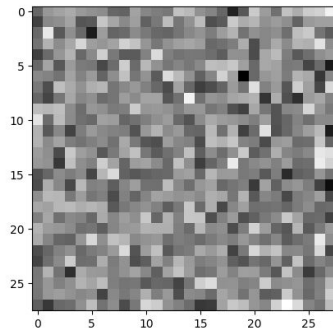Confusion Matrix

[[518 36]
 [35 535]]

[[527 27]
 [25 545]]

C = 1

	Ridge	Lasso

Ridge

Lasso

Activation Map

Accuracy

0.936832740214

0.940391459075

Classification Report

Ridge:

P:- precision
R:- recall
F:- f1-score
S:- support

	P	R	F	S
0	0.94	0.94	0.94	554
1	0.94	0.94	0.94	570
avg	0.94	0.94	0.94	1124

Lasso:

P:- precision
R:- recall
F:- f1-score
S:- support

	P	R	F	S
0	0.94	0.94	0.94	554
1	0.94	0.94	0.94	570
avg	0.94	0.94	0.94	1124

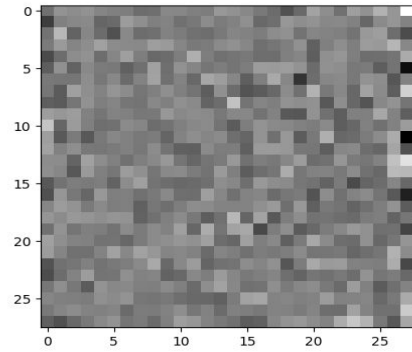**Confusion Matrix**

Ridge:
[[519 35]
 [36 534]]

Lasso:
[[522 32]
 [35 535]]

	Ridge	Lasso
Activation Map		
Accuracy	0.934163701068	0.940391459075

Classification Report

P:- precision
R:- recall
F:- f1-score
S:- support

	P	R	F	S
0	0.93	0.93	0.93	554
1	0.93	0.94	0.94	570
avg	0.93	0.93	0.93	1124

P:- precision
R:- recall
F:- f1-score
S:- support

	P	R	F	S
0	0.94	0.94	0.94	554
1	0.95	0.94	0.94	570
avg	0.94	0.94	0.94	1124

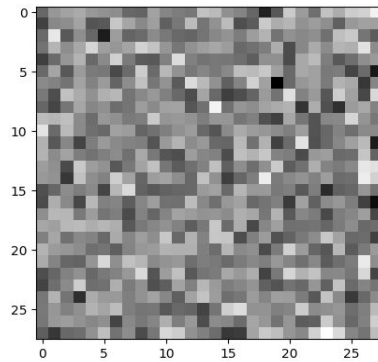Confusion Matrix

[[516 38]
 [36 534]]

[[523 31]
 [36 534]]