

```
>> example5_1
Loading data/mnist/train-labels-idx1-ubyte
Loading data/mnist/train-images-idx3-ubyte
Loading data/mnist/t10k-labels-idx1-ubyte
Loading data/mnist/t10k-images-idx3-ubyte
```

```
TRAIN_NUM =
```

```
1800
```

```
TEST_NUM =
```

```
360
```

```
train_res_mat =
```

```
Columns 1 through 9
```

	5749	1	42	17	10	64	28✓
20	26						
	2	6578	26	19	25	29	19✓
41	82						
	22	39	5502	132	42	48	28✓
65	71						
	9	22	47	5549	4	135	2✓
29	90						
	11	5	72	9	5461	38	30✓
42	37						
	23	19	18	149	5	4829	79✓
11	83						
	42	7	46	28	51	84	5689✓
5	34						
	10	20	97	70	22	32	10✓
5909	30						
	46	42	87	114	40	109	28✓
18	5345						
	9	9	21	44	182	53	5✓
125	53						

```
Column 10
```

```
32
22
18
89
145
39
3
167
66
5368
```

```
train_accuracy =
```

```
0.9330
```

```
test_res_mat =
```

22	0	0	1	1	0	1	0	1	0
0	13	0	1	2	0	0	10	2	1
7	1	26	4	2	9	8	10	0	2
4	2	3	18	0	4	0	7	10	5
0	0	3	0	15	1	4	0	0	1
0	15	2	7	1	24	6	0	5	4
1	1	0	2	5	5	12	0	7	1
0	2	2	2	1	2	0	6	0	4
1	3	0	0	2	2	3	0	16	2
2	1	0	0	4	0	1	1	1	3

```
test_accuracy =
```

```
0.4306
```

```
>>
```