```
In [2]:
          ⋈ import re
            from sklearn.datasets import load digits
            from sklearn.model_selection import train_test_split
            import numpy as np
            import matplotlib.pyplot as plt
            import seaborn as sns
            from sklearn import metrics
            %matplotlib inline
            digits=load digits()
 In [3]:
          ▶ | print("Image data shape", digits.data.shape)
            print("Label data shape", digits.target.shape)
            Image data shape (1797, 64)
            Label data shape (1797,)
In [21]:
          ▶ plt.figure(figsize=(20,4))
            for index,(image,label)in enumerate(zip(digits.data[0:5],digits.target[0:5])
                plt.subplot(1,5,index+1)
                plt.imshow(np.reshape(image,(8,8)),cmap=plt.cm.pink)
                plt.title('Training:i\n'%label,fontsize=10)
                  Training:i
 In [6]:
          x_train,x_test,y_train,y_test=train_test_split(digits.data,digits.target,1
 In [7]:
          ▶ print(x_train.shape)
             (1257, 64)
 In [8]:
          ▶ print(y_train.shape)
             (1257,)
 In [9]:
            print(x_test.shape)
             (540, 64)
```

In [16]: [4 0 9 1 8 7 1 5 1 6 6 7 6 1 5 5 8 6 2 7 4 6 4 1 5 2 9 5 4 6 5 6 3 4 0 9 9 8 4 6 8 8 5 7 9 8 9 6 1 7 0 1 9 7 3 3 1 8 8 8 9 8 5 8 4 9 3 5 8 4 3 1 3 7 3 3 0 8 7 2 8 5 3 8 7 6 4 6 2 2 0 1 1 5 3 5 7 1 8 2 2 6 4 6 7 3 7 3 9 7 0 3 5 1 5 0 3 9 2 7 3 2 0 8 1 9 2 1 5 1 0 3 4 3 0 8 3 2 2 7 3 1 6 7 2 8 3 1 1 6 4 8 2 1 8 4 1 3 1 1 9 5 4 8 7 4 8 9 5 7 6 9 4 0 4 0 0 9 0 6 5 8 8 3 7 9 2 0 8 2 7 3 0 2 1 9 2 7 0 6 9 3 1 1 3 5 2 5 5 2 1 2 9 4 6 5 5 5 9 1 5 9 6 3 7 1 7 5 1 7 2 7 5 5 4 8 6 6 2 8 7 3 7 8 0 9 5 7 4 3 4 1 0 3 3 5 4 1 3 1 2 5 1 4 0 3 1 5 5 7 4 0 1 0 9 5 5 5 4 0 1 8 6 2 1 1 1 7 9 6 7 9 0 4 9 6 9 2 7 2 1 0 8 2 8 6 5 7 8 4 5 7 8 6 4 2 6 9 3 0 0 8 0 6 6 7 1 4 6 9 7 2 8 5 1 2 4 1 8 8 7 6 0 8 0 6 1 5 7 8 0 4 1 4 5 9 2 2 3 9 1 3 9 3 8 0 6 5 6 2 5 2 3 2 6 1 0 7 6 0 6 2 7 0 3 2 4 2 3 6 9 7 7 0 3 5 4 1 2 2 2 7 7 0 4 9 8 5 6 1 6 5 2 0 8 2 4 3 3 2 9 3 8 9 9 5 9 0 3 4 7 9 8 5 7 5 5 3 5 0 2 7 3 0 4 3 6 6 1 9 6 3 4 6 4 6 7 2 7 6 3 0 3 0 1 3 6 1 0 4 3 8 3 3 4 8 6 9 6 3 3 0 5 7 8 9 1 5 3 2 5 1 7 6 0 6 9 5 2 4 4 7 2 0 5 6 2 0 4 4 4 7 1 0 4 1 9 2 1 3 0 5 3 9 8 2 6 0 0 4

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In [17]: N score=logisticRegr.score(x_test,y_test)
```

In [18]:	M	<pre>print(score)</pre>
		0.9537037037037
In []:	M	