One - vrs - all

The basic idea is :-

Train a logistic regression classifier $h_\theta^{(i)}(x)$ for each class i to predict the probability that $\underline{y = i}$

On a new input x, to make a prediction, pick the class i that maximises

$$\max_i h_\theta^{(i)}(x)$$

here for example run all 3 classifiers on the input x, then pick class i that maximizes the 3.