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from numpy import where

from collections import Counter

from sklearn.datasets import make_blobs

from matplotlib import pyplot

X,y=make_blobs(n_samples=1000,centers=3,random_state=1)

print(X.shape,y.shape)

counter=Counter(y)

print(counter)

for i in range(10):

    print(X[i],y[i])

for label,_ in counter.items():

    row_ix=where(y==label)[0]

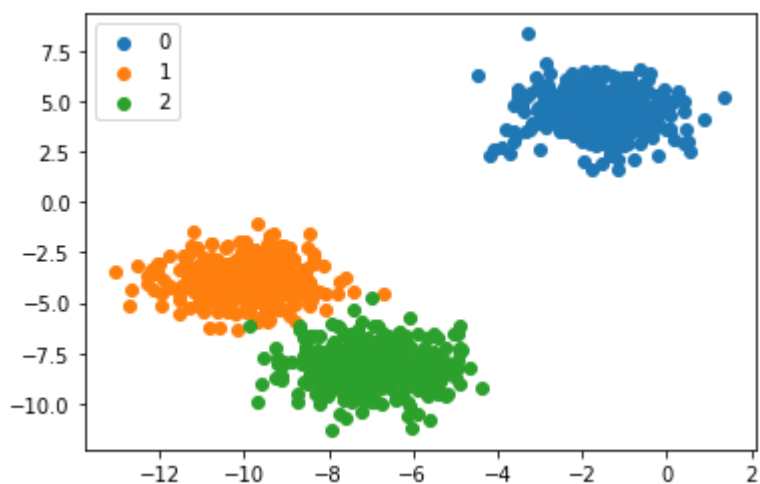
    pyplot.scatter(X[row_ix,0],X[row_ix,1],label=str(label))

pyplot.legend()

pyplot.show()
```



```
(1000, 2) (1000,)  
Counter({0: 334, 1: 333, 2: 333})  
[-3.05837272  4.48825769] 0  
[-8.60973869 -3.72714879] 1  
[1.37129721  5.23107449] 0  
[-9.33917563 -2.9544469 ] 1  
[-8.63895561 -8.05263469] 2  
[-8.48974309 -9.05667083] 2  
[-7.51235546 -7.96464519] 2  
[-7.51320529 -7.46053919] 2  
[-0.61947075  3.48804983] 0  
[-10.91115591 -4.5772537 ] 1
```



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