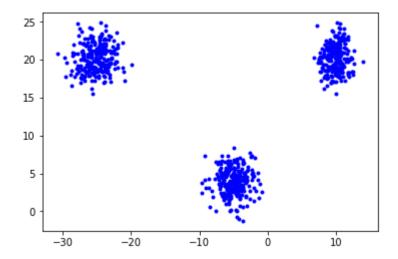
K-Means

Out[2]: [<matplotlib.lines.Line2D at 0xb2ce828>]



```
In [3]: from sklearn.cluster import KMeans

n_clusters = 3

X = np.concatenate((d1,d2,d3))

def implement_kmeans (n_clusters):
    kmeans = KMeans(n_clusters=n_clusters, random_state=0).fit(X)
    kmeans.cluster_centers_.shape

    plt.plot(X[:,0],X[:,1],'.')
    plt.plot(kmeans.cluster_centers_[:,0],kmeans.cluster_centers_[:,1],'o')
```

```
In [4]: from ipywidgets import interact, HTML, FloatSlider
    interact(implement_kmeans,n_clusters=(1,10,1))
```

```
Out[4]: <function __main__.implement_kmeans>
```