**PyQGIS Developer Cookbook:**<https://docs.qgis.org/testing/en/docs/pyqgis_developer_cookbook/>

**Notes Udemy Automating QGIS:**iface: Stands for interface and is a “hook”. This creates a connection between the Python Console and the open QGIS interface.   
  
*Map canvas*  
mapCanvas: mc = iface.mapCanvas()  
Is an object that allows interactions with layers and the map, such as mc.layers(), mc.zoomScale(), mc.zoomIn(), mc.zoomOut().   
lyr = mc.currentLayer()# returns the current layer.   
lyrs = mc.layers() # returns a list of all layers that are currently “clicked/shown” in the interface.  
  
*QgsProject*lyrs = QgsProject.instance().mapLayersByName(‘Country’) #access a layer within   
#Creates a list since a name can refere to more than on layer  
lyr = lyrs[0] #Will return the layer in question.  
  
*Layer*lyr.isValid() #   
lyr.sourceName() #Returns the name of the layer  
  
ftrs=lyr.getFeatures() #This returns an QgsFeatureIterator object, which is similar to a list. An important (!) difference is that as it is iterated through it empties the object. So in order to loop through it a second time you need to instance it again.   
  
*Features:*print(feat[‘Name’], feat[‘POP\_EST’])