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import xml.etree.ElementTree as ET
import sys

# XML File Name
xml_fname =
"F:\\Training_Projects\\SpringPeople\\Python_DD_1\\Sessions\\Day_8_08July
2017\\employee.xml"

try:
  tree = ET.parse(xml_fname)
except Exception as e:
  print ("Error Occurred ->", e)
  sys.exit()

print ("XML File has parsed successfully ->", tree)

print ("------------------------------------------------------------")

# Retrieve the root information
root = tree.getroot()
print ("Root Object ->", root)

print ("Tag Name ->", root.tag)
print ("Attributes ->", root.attrib)
print ("Size ->", root.attrib["size"])

print ("------------------------------------------------------------")

# Child and sub-child
for child in root:
  print ("Child Tag ->", child.tag)
  print ("Child Attribute ->", child.attrib)

  for sub_child in child:
    print ("Sub Child Tag ->", sub_child.tag)

    if (len(sub_child.attrib.keys()) > 0):
      print ("Sub Child Attribute ->", sub_child.attrib)

  print ("============================================================")

print ("------------------------------------------------------------")

# Find All Method
for emp in root.findall("employee"):
  eid = emp.find('id').text
  eloc = emp.find('location').text
  esal = emp.find('salary').text
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 print (emp.attrib["fname"], '->', emp.attrib["lname"], '->', eid, '->',
eloc, '->', esal)

print ("-------------------------------------------------------------")

# iter Method
for loc in root.iter("location"):
  print ("Location ->", loc.text)

  # Change the text
  loc.text += " City"

  if (loc.text == "Noida City"):
    loc.set("office", "IT Park")
  elif (loc.text == "Bangalore City"):
    loc.set("office", "Bagmane Tech Park")
  elif (loc.text == "Chennai City"):
    loc.set("office", "Tidel Park")

tree.write("employee_updated.xml")

print ("-------------------------------------------------------------")

# To remove the particular element
for emp in root.findall("employee"):
  esal = int(emp.find("salary").text)
  print (esal, '->', type(esal))

  if (esal < 30000):
    root.remove(emp)

tree.write("employee_updated.xml")

print ("-------------------------------------------------------------")
```