**PYTHON PROJECT**

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**Objective:** Reading time table xml file for list of courses, list of resources, list of codes and list of teachers

**CONCEPTS USED:**

* Pands
* xml.etree.ElementTree module
* Lists
* functions

**CODE:**

import os

import pandas as pd

from collections import OrderedDict

from datetime import date

import xml.etree.ElementTree as et

tree= et.parse("k.xml")

root= tree.getroot()

q=[]

for child in root:

for element in child:

q.append(element.tag)

r=list(set(q))

print(r)

#extracted all the tags of the elemnts of child nodes in a list

print("\n")

print("\n")

#passed the list as an argument to get all the values to their correspponding attributes ( parsing via tree.iter) and converting them into tables using pandas' DataFrame

def extract(tags):

for i in tags:

dd=[]

for elem in tree.iter(tag=i):

b=elem.attrib

dd.append(b)

df\_dd = pd.DataFrame(dd)

print(i)

print(df\_dd)

#printed the values in a column vise format using pandas dataframe

print("\n")

print("\n")

extract(r)

#Finding info by passing any attribute and its value

def find(mnode, node, att, value):

w=[]

test = tree.find(mnode)

for info in test.findall(node):

if info.get(att) == value:

q=info.attrib

w.append(q)

df=pd.DataFrame(w)

print(df)

p= input("enter main child node :")

q= input("enter sub child node :")

r= input("enter attribute :")

s= input("enter value :")

find(p,q,r,s)

**O/P:**







 





