Reading an excel file using Python

Using xlrd module, one can retrieve information from a spreadsheet. For example, reading, writing or modifying the data can be done in Python. Also, user might have to go through various sheets and retrieve data based on some criteria or modify some rows and columns and do a lot of work.

**xlrd**module is used to extract data from a spreadsheet.  
   
Command to install xlrd module :

pip install xlrd

pip install xlwt

# Reading an excel file using Python

import xlrd

# Give the location of the file

loc = ("path of file")

# To open Workbook

wb = xlrd.open\_workbook(loc)

sheet = wb.sheet\_by\_index(0)

# For row 0 and column 0

sheet.cell\_value(0, 0)

sheet.nrows # count of used rows

sheet.ncols #count of used columns

# Program to extract number

# of rows using Python

import xlrd

# Give the location of the file

loc = ("path of file")

wb = xlrd.open\_workbook(loc)

sheet = wb.sheet\_by\_index(0)

sheet.cell\_value(0, 0)

# Extracting number of rows

print(sheet.nrows)

# Program to extract number of

# columns in Python

import xlrd

loc = ("path of file")

wb = xlrd.open\_workbook(loc)

sheet = wb.sheet\_by\_index(0)

# For row 0 and column 0

sheet.cell\_value(0, 0)

# Extracting number of columns

print(sheet.ncols)

# Program extracting all columns

# name in Python

import xlrd

loc = ("path of file")

wb = xlrd.open\_workbook(loc)

sheet = wb.sheet\_by\_index(0)

# For row 0 and column 0

sheet.cell\_value(0, 0)

for i in range(sheet.ncols):

print(sheet.cell\_value(0, i))

# Program extracting first column

import xlrd

loc = ("path of file")

wb = xlrd.open\_workbook(loc)

sheet = wb.sheet\_by\_index(0)

sheet.cell\_value(0, 0)

for i in range(sheet.nrows):

print(sheet.cell\_value(i, 0))

# Program to extract a particular row value

import xlrd

loc = ("path of file")

wb = xlrd.open\_workbook(loc)

sheet = wb.sheet\_by\_index(0)

sheet.cell\_value(0, 0)

print(sheet.row\_values(1))

# Writing to an excel sheet using Python

Using **xlwt module**, one can perform multiple operations on spreadsheet. For example, writing or modifying the data can be done in Python. Also, user might have to go through various sheets and retrieve data based on some criteria or modify some rows and columns and do a lot of work.

# Writing to an excel

# sheet using Python

import xlwt

from xlwt import Workbook

# Workbook is created

wb = Workbook()

# add\_sheet is used to create sheet.

sheet1 = wb.add\_sheet('Sheet 1')

sheet1.write(0, 5, 'CLOCK TOWER')

wb.save('xlwt example.xls')

# importing xlwt module

import xlwt

workbook = xlwt.Workbook()

sheet = workbook.add\_sheet("Sheet Name")

# Specifying style

style = xlwt.easyxf('font: bold 1')

# Specifying column

sheet.write(0, 0, 'SAMPLE', style)

workbook.save("sample.xls")

# importing xlwt module

import xlwt

workbook = xlwt.Workbook()

sheet = workbook.add\_sheet("Sheet Name")

# Applying multiple styles

style = xlwt.easyxf('font: bold 1, color red;')

# Writting on specified sheet

sheet.write(0, 0, 'SAMPLE', style)

workbook.save("sample.xls")