**Working of the excel file in the python**

**How to read Excel file in the python:**

**Step 1:** Read the notepad file and remove the hz and Hz in the inputypes & find all the some characters in the input types in each input types files.

import re

file = open ("D:\cparser\preprocessingscrpit\input\_types.txt", "r")

for line in file:

# print(line)

line = re.sub("hz", "", line)

line = re.sub("Hz", "", line)

if bool(re.findall(r'[yzafEZY]',line)):

print("invalid")

print(line)

print ("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*")

**How to write Excel file in the python:**

import xlwt

from xlwt import Workbook

import xlrd

from xlutils.copy import copy

import re

# Give the location of the file

loc = ("D:/Arithmetic\_parser/Arithmethic-parser-/python\_script\_preprocessing/Inputtypesfilesspreadsheet.xlsx")

# To open Workbook

old\_excel = xlrd.open\_workbook(loc)

new\_excel = copy(old\_excel)

sheet = new\_excel.get\_sheet(0)

file = open("D:\Arithmetic\_parser\Arithmethic-parser-\python\_script\_preprocessing\myfileinputtypes.txt", "r")

for idx,line in enumerate(file,1):

line = re.sub(r"hz||Hz", "", line)

if bool(re.findall(r"[yzafEYZ]", line)):

sheet.write(idx,1,'INVALID')

else:

opr = re.findall(r'[\*+-/]',line)

var = re.split(r"[\*+-/]", line)

s = ""

if opr != [] or opr != ['.'] :

for i in range (len(opr)):

if opr[i] == '.':

s=s+"("+var[i]+opr[i]

elif s!="" and s[-1]==".":

s=s+var[i]+")"+opr[i]

else:

s= s+"("+var[i]+")"+opr[i]

exp = s+"("+var[-1][:-1]+")"

exp = exp.replace('e)-(','e-')

exp= exp.replace('.(','.')

exp= exp.replace('.(','.')

exp= exp.replace('()','')

sheet.write(idx,1,exp)

new\_excel.save("D:/Arithmetic\_parser/Arithmethic-parser-/python\_script\_preprocessing/new\_fileName.xls")