**Python to excel**

* the package xlwt is used to move the data from python to excel
* install the package **xlwt**
* import xlwt

**Methods**

1.**W**orkbook()-→ creates a new work book in excel

wbvariable=xlwt.Workbook()

2.add\_sheet() → used to add the new sheet in the created work book

wsvariable=xlwt.add\_sheet(“sheetname”)

3.write() → used to write the data in excel cell

wsvariable.write(rowpos,colpos,data[,format])

4.save() → used to save the excel file

wbvariable.save(“filename”)

5. easyxf() → used to format the data to be written to the excel

variable=xlwt.easyxf(‘formats’)

6.write\_merge()-→ used to merge the cell

wsvariable.write\_merge(toprow,bottomrow,leftcolumn,rightcol,value[,format])

**enumerate()** → used to create the constant number for the values

it returns 2 values

1.constant number

2.value to which that constant is assigned

**Excel to python**

* used to move the data from excel to python
* install xlrd
* import xlrd

**Methods**

1.open\_workbook()→ used to open the excel filename

wbvariable=xlrd.open\_workbook(“filename”)

2.nsheets-→ returns the total number of sheets in the excel file

variable=wbvariable.nsheets

3.sheet\_names-→ loist all the sheet names in the excel file

variable=wbvariable.sheet\_names()

4. sheet\_by\_name() → used to open the sheet by its name

wsvariable=wbvariable.sheet\_by\_name(“sheetname”)

5. sheet\_by\_index() → used to open the sheet by index

0→1st sheet

1→2nd sheet

6. nrows→ returns the total number of rows contains data

variable=wsvariable.nrows  
 7.ncols→ returns the total number of columns contains data

variable=wsvariable.ncols

8. cell() → used to read the data from the cell

variable=wsvariable.cell(row,col).value

**Database connection**

* used to move the data to database and vice versa
* to connect with mysql
  + install PyMySQL
  + import pymysql

**Methods**

1.connect() → used to establish the connection between the python program and mysql db

connvariable=pymysql.connect(“hostname”,”username”,”password”,”dbname”)

2. cursor() → used to excute the mysql statements

curvariable=connvariable.cursor()

3.execute() → used to execute mysql dml,ddl,select statements

curvariable.execute(“mysql statement”)

4.commit() → used to make the transaction permanent

connvariable.commit()

5. close()→ used to close the connection

connvariable.close()

**Db to Python**

1.rowcount→ returns the total number of rows fetched

variable=cursorvariable.rowcount

2.fetchall()-→ retrieves all the record

variable=curvariable.fetchall()

3.fetchone()→ used to fetch the record one by one

variable=curosorvariable.fetchone()

Files

Exception Handling

Packages

Pre-defined modules

**os/sys**

Math

random

**Datetime**

**psutil**

**matplotlib**

**mail sending**

**Boto3 package**

**API**

Example scripts