**Python document for Metadata mapping for IFS and XSD**

**Prerequisites**

1. Download and install python

<https://www.python.org/downloads/> (I have worked with Python 2.7.11)

1. Add python path to system variable
2. Add add on to python to read document

eg:

pip --proxy http://l070028:Password@secure-proxy.btfin.com:8080 install python-docx

pip --proxy http://l070028:Password@secure-proxy.btfin.com:8080 install openpyxl

pip --proxy http://user:password@proxy.server:port install python-docx

1. Add module to write excel file

pip –proxy http://user:password@proxy.server:port install xlsxwriter

1. Add excel reader to read ifs documents from input excel sheet (IFS Documents Analysis.xlsx)which contains all ifs document names eg : pip --proxy http://l070028:Password@secure-proxy.btfin.com:8080 install openpyxl

pip –proxy http://user:password@proxy.server:port install openpyxl

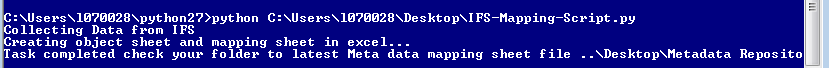
1. Create **Metadata Repository** folder of desktop and copy all IFS documents from share point to that folder (Note : if you wish to change path of or name of folder change value of **parentDir** variable from script to respective folder path )



1. Create excel document for all IFS file information and save it to same **Metadata Repository** folder

**How to run script**

1. Start cmd go to python path eg : C:\Users\l070028\python27
2. Run script file python script-file-path python C:\Users\l070028\Desktop\IFS-Mapping-Script.py



1. And run the script check excel document generated in Output folder in **Metadata Repository** file name starts with

**Script Advantage**

1. Script will create excel which contains IFS and XSD object creation and IFS to XSD mapping for 100 number of input files in 5 to 10 min previously doing this task manually was taking 2 to 3 days of man efforts now automation script will do it in 5 to 10 min
2. Following manual steps are now being automated
3. Read Excel input sheet which contains IFS document name and information(IFS Documents Analysis.xlsx)
4. Read IFS document from folder
5. Go to 2.4 Positive response attributes section
6. Read table attributes and entity from IFS document
7. Create object sheet for IFS and XSD
8. Create mapping sheet for IFS to XSD