**PDF PROCESSING**

* **Encrypted the pdf with password:**

We select the file using the **tkinter**, used the **PyPDF2** to use the bydefault functions on the package, then we process the file and encrpt using the password

import PyPDF2  
import tkinter  
from tkinter import filedialog  
root=tkinter.Tk()  
root.withdraw()  
file\_name=filedialog.askopenfilename()  
  
pdf\_in\_file=open(file\_name,'rb')  
inputpdf=PyPDF2.PdfFileReader(pdf\_in\_file)  
pages\_no=inputpdf.numPages  
output=PyPDF2.PdfFileWriter()  
for i in range(pages\_no):  
 inputpdf=PyPDF2.PdfFileReader(pdf\_in\_file)  
 output.addPage(inputpdf.getPage(i))  
 output.encrypt('admin@123')  
 with open("sample2.pdf","wb")as outputStream:  
 output.write(outputStream)  
pdf\_in\_file.close()

* **Class, Function, Exception implementation:**
* Class **PDFProcessing:** Class is implemented for the pdf processing

class PDFProcessing:

* Function **def Encry(self):** Function is implemented for the encrypting the file with password

def Encry(self):

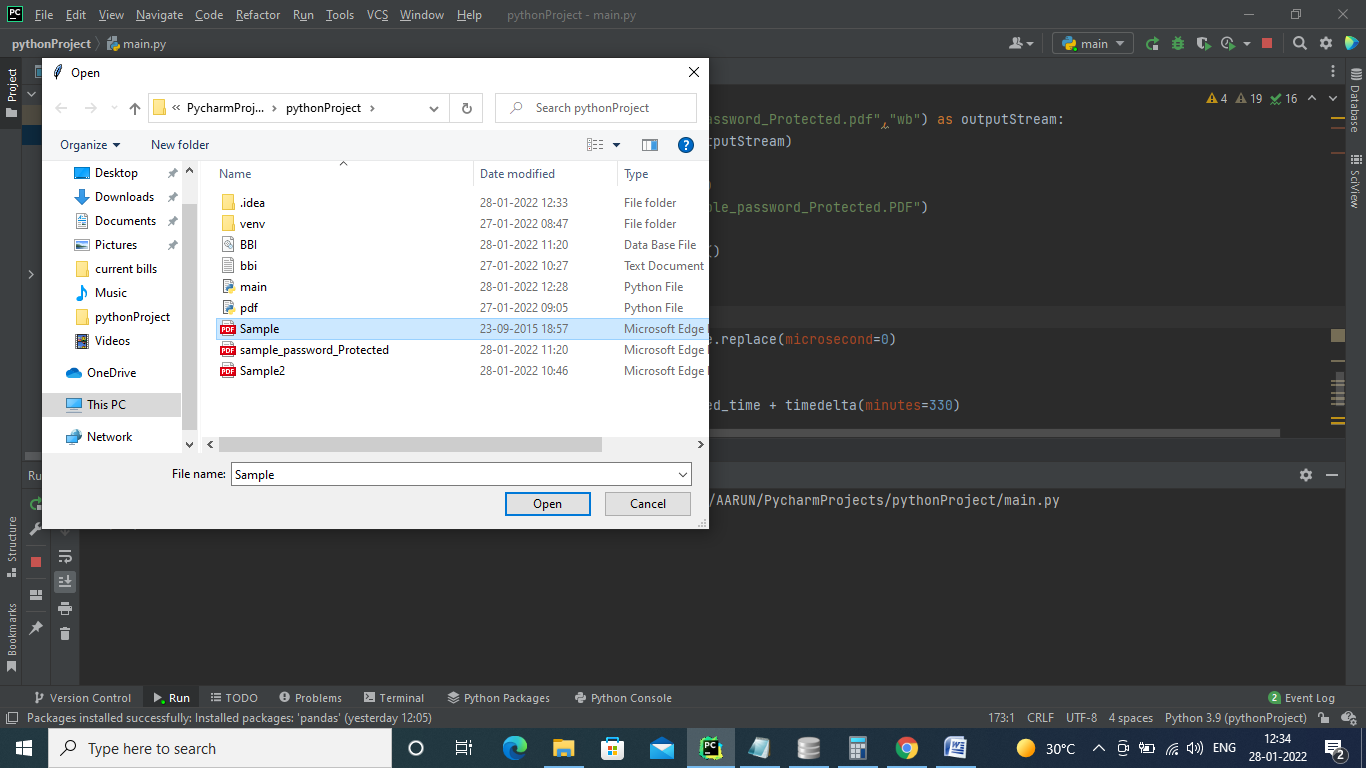
* Exception (Try..Except): The try block is implemented if there is any issue file we opening the file it throws error, if it has any error than except block is executed

try:  
  
 pdf\_in\_file = open(f\_name,'rb')

except:  
 print("File open Error")

* **Selection of file using Tkinter:**

We import the tkinter package for selection of a file , by using the default functions we select the file by using the path , to be accessible for user to select the file based on the requirement



* **DateTime Stamp:**

We return the encrpyted file date ,time by using the **datetime** and **timedelta** packages

current\_time = datetime.now()  
#print(current\_time)  
# print(type(current\_time))  
  
Modified\_time = current\_time.replace(microsecond=0)  
#print(Modified\_time)  
  
added\_current\_time = Modified\_time + timedelta(minutes=330)  
#print(added\_current\_time)  
# print(type(added\_current\_time))  
  
my\_time\_format = "%y\_%m\_%d\_%H\_%M\_%S"  
converted\_format\_time = datetime.strftime(added\_current\_time, my\_time\_format)  
print(converted\_format\_time)

* **Database connection:**

We import **sqlite3** package, then we create the **DB** and **table** for stroing the file information like File\_name, File\_size, Time\_of\_encryption

connection = sqlite3.connect("BBI.db")  
query = """Create table Pdf\_Processor("file\_name" text, "file\_size" integer,"time\_of\_encry" time)"""  
execution = connection.execute(query)  
connection.commit()  
connection.close()

* **Storing the file\_info on Database:**  
   We insert the file\_info on database based on file\_name, file\_size,time\_encry

connection.execute("insert into Pdf\_Processor values(?,?,?)", (file\_name, size, converted\_format\_time))  
connection.commit()  
connection.close()

