LAB 4

KOD:

import os, sys, optparse

from exif import Image

import webbrowser

from PyPDF2 import PdfFileReader, PdfFileWriter

def convertGPScoordinate(coordinate, coordinate\_ref):

decimal\_degrees = coordinate[0] + \

coordinate[1] / 60 + \

coordinate[2] / 3600

if coordinate\_ref == "S" or coordinate\_ref == "W":

decimal\_degrees = -decimal\_degrees

return decimal\_degrees

def figMetaData(file\_path):

img\_doc = Image(open(file\_path, "rb"))

if not img\_doc.has\_exif:

sys.exit(f"Image does not contain EXIF data.")

else:

print(f"Image contains EXIF (version {img\_doc.exif\_version}) data.")

print(f"{dir(img\_doc)}\n")

latitude = convertGPScoordinate(img\_doc.gps\_latitude, img\_doc.gps\_latitude\_ref)

latitude = str(latitude)

longitude = convertGPScoordinate(img\_doc.gps\_longitude, img\_doc.gps\_longitude\_ref)

longitude = str(longitude)

print(latitude + "," + longitude)

url = "http://www.google.com/maps/place/" + latitude + "," + longitude

webbrowser.open\_new\_tab(url)

def pdfMetaData(file\_path):

pdf\_doc = PdfFileReader(open(path, "rb"))

if pdf\_doc.isEncrypted:

try:

if pdf\_doc.decrypt("PASSWORD\_GOES\_HERE") != 1:

sys.exit("target pdf document is encrypted")

except:

sys.exit("target pdf document is encrypted")

pdfWriter = PdfFileWriter()

for pageNum in range(pdf\_doc.numPages):

pdfWriter.addPage(pdf\_doc.getPage(pageNum))

resultPdf = open('decrypted\_output.pdf', 'wb')

pdfWriter.write(resultPdf)

resultPdf.close()

if \_\_name\_\_ == "\_\_main\_\_":

parser = optparse.OptionParser("Usage: python <script\_name> -f <file>")

parser.add\_option("-f", dest="file", type="string", help="please provide full path to the document")

(options, args) = parser.parse\_args()

path = options.file

if not path:

print("please provide full path to the document")

sys.exit(parser.usage)

if any(path.endswith(ext) for ext in (".jpg", ".bmp", ".jpeg",)):

figMetaData(path)

elif path.endswith(".pdf"):

pdfMetaData(path)

else:

print("File extension not supported/recognized... Make sure the file has the correct extension...")