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**Advance Python Programming**

**Assignment-1 [Logging]**

**Assignment:** Implement Logging into the pursuing project.

**Code:**

# the project requires web scraping, so this assignment will be about logging related to web scraping  
  
import requests  
import logging  
  
# configure logging  
logging.basicConfig(filename="D:\\COLLEGE\\Python Lab\\Theory\\webScrapeLogFile.log", filemode="a", level=logging.INFO, format="%(asctime)s - %(levelname)s - %(message)s")  
  
# function to fetch the source code of the website (using proxy servers) and saving it to a html file  
def fetchAndSaveToFile(url, path):  
 try:  
 r = requests.get(url)  
 with open(path, "w", encoding="utf-8") as f:  
 f.write(r.text)  
 f.close()  
 logging.info("Source code fetched successfully")  
  
 except Exception as e:  
 logging.error("Error occurred while fetching, opening or writing to file")  
  
# IP and ports of available proxy servers [not used in project yet]  
proxies = {  
 "http": "109.254.21.27:9090",  
 "https": "67.213.212.51:48986"  
}  
  
# url of website to be scraped  
url = "https://timesofindia.indiatimes.com/india/chandrayaan-3-mission-pragyan-rover-discovers-sulphur-on-moon-why-its-significant/articleshow/103207669.cms"  
  
# location of html file  
path = "D:\\COLLEGE\\Python Lab\\Theory\\webIsScraped.html"  
  
# function is called  
fetchAndSaveToFile(url, path)

**Output: [log file screenshot]**

