

Team Exercise #2

IST 303, Fall 2025

Due: 11/13/2025 by 10:00 PM

Submission: github repo link uploaded in canvas (can use the same repo you used for Team Exercise #1). The repo should contain your **team_ex_2.py** file and documentation of your process (you can use github, this document, a readme file, or other method).

Assignment type: Team, In-class

Points: Complete/Incomplete. No points are assigned. Extra credit points may be awarded to teams based on their approach and solutions.

INSTRUCTIONS

The file **team_ex_2.py** contains a naive solution to the Pair Exercise #4 assignment, which you are familiar with having recently submitted a solution. The code uses the *wikipedia* package and downloads references for related pages to a specified topic. This file has 5 functions:

1. `convert_to_str` - a helper function to convert objects to strings
2. `wiki_sequentially` - execute the task sequentially
3. `concurrent_threads` - execute using multiple threads
4. `dl_and_save_process` - helper function for multiple process execution
5. `concurrent_process` - execute using multiple processes

General advice/resources:

- you will need a virtual environment with the wikipedia package installed
- wrapper functions or other abstractions may be useful

Problem

Your task is to review the code in the **team_ex_2.py** file, discuss it as a team, and refactor the code to be more efficient and extendable. Your review process should include:

- identification of possible issues
- creation of tasks
- assignment of tasks
- description of each issue and how it was resolved

In addition to issues/areas for improvement discovered in the codebase, the refactored solution must add the following new functionality:

- allow the user to input their own search term
- if the user input search term is less than 4 characters, default to "generative artificial intelligence"
- a new directory named "wiki_dl" is created to store the .txt files

Working Space / Notes

If you would like, feel free to use the template below to assist with the problem. However you decide to approach the problem as a team, be sure to document your review process.

Issues

- Issue 1:
- Issue 2:
- Issue 3:
- Issue 4:

Tasks

task #	description	assignment	solution
1			
2			
3			
4			
5			
6			
7			
8			