Terms and Conditions:

- **Promotional Use**: By participating in the EcodeCamp Internship Program, you grant EcodeCamp the right to use your completed tasks and projects for promotional purposes, including showcasing on the company's website, social media, and other marketing materials.
- **Task Submission and Certification**: To receive a certificate, complete 3 tasks, post them on LinkedIn mentioning @EcodeCamp, and submit them on GitHub in a repository named `EcodeCamp_Internships`.
- **Intellectual Property**: You retain intellectual property rights for your tasks, but grant EcodeCamp a non-exclusive, royalty-free license to use and distribute your work for promotional purposes.
- **Professional Conduct**: You are expected to maintain professional and ethical conduct throughout the internship period.

Contact:

- **Whatsapp:** +923156073601
- **Email:** info@ecodecamp.com
- **Website:** www.ecodecamp.com
- **LinkedIn:** EcodeCamp

ABOUT THE INTERNSHIP

Internship Details:

- **Internship Start Date:** 15th Sep 2024
- **Internship End Date:** 15th Oct 2024
- **Duration:** 1 month
- **Location:** Remote

Benefits of this internship:

- opportunity to win cash prizes
- Real word project experience
- Receive Resume building guidance

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PYTHON INTERNSHIP TASKS

Task 1

Simple Calculator

Objective: Develop a command-line calculator application to perform basic arithmetic operations.

Task Roadmap:

- **Project Setup:**
    - Initialize a Python project and set up a virtual environment.
- **Development:**
    - Implement functions for addition, subtraction, multiplication, and division.
    - Use a loop to allow continuous calculations until the user decides to exit.
    - Handle invalid input and division by zero errors.
- **Testing:**
    - Test the calculator with various inputs to ensure accuracy.
- **Documentation:**
    - Provide a usage guide and example inputs.
- **Deployment**
    - Make a simple UI using flask or gradio

Resources:

- https://youtu.be/NzSCNjn4_RI?si=_ArfT1A-K9hqvPbq
- https://www.geeksforgeeks.org/make-simple-calculator-using-python/

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Task 2

To-Do List Application

Objective: Create a simple to-do list application to manage tasks from the command line.

Task Roadmap:

- **Project Setup:**
  - Initialize a Python project and set up a virtual environment.
- **Development:**
  - Implement functions to add, remove, and display tasks.
  - Store tasks in a list or a text file for persistence.
  - Provide a user-friendly command-line interface.
- **Testing:**
  - Test the application for task management functionality.
- **Documentation:**
  - Provide instructions on how to use the to-do list application.
- **Deployment**
  - Make a simple UI using flask or gradio

Resources:

- https://youtu.be/T60cEaVYMJE?si=bT5K3p01kp5ZbX5d
- https://www.linkedin.com/pulse/creating-simple-to-do-list-application-python-guide-daniel-joseph-/

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Task 3

Simple Quiz Game

Objective: Develop a command-line quiz game with multiple-choice questions.

Task Roadmap:

- **Project Setup:**
    - Initialize a Python project and set up a virtual environment.
- **Development:**
    - Create a list of questions and possible answers.
    - Implement the game logic to present questions and check answers.
    - Track the user's score and provide feedback at the end of the quiz.
- **Testing:**
    - Test the game with different questions and answers.
- **Documentation:**
    - Provide a guide on how to play the quiz game.
- **Deployment**
    - Make a simple UI using flask or gradio

Resources:

- https://youtu.be/lFSkmIEjckc?si=EiLIVj_17avVbWT1
- https://realpython.com/python-quiz-application/

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Task 4

Contact Book App

Objective: Create a command-line contact book application to store and manage contact information.

Task Roadmap:

- **Project Setup:**
  - Initialize a Python project and set up a virtual environment.
- **Development:**
  - Implement functions to add, remove, update, and display contacts.
  - Store contact information (name, phone number, email) in a text file or CSV file.
  - Provide a user-friendly command-line interface.
- **Testing:**
  - Test the application with various contacts.
- **Documentation:**
  - Provide instructions on how to use the contact book.
  - Provide a guide on how to play the quiz game.
- **Deployment**
  - Make a simple UI using flask or gradio

Resources:

- https://youtu.be/d1y-LqK9QzU?si=MddX6ju9i9NXGRCW
- https://pythongeeks.org/python-contact-address-book-project/

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Task 5

Basic Web Scraper

Objective: Develop a simple web scraper to extract and display data from a website.

Task Roadmap:

- **Project Setup:**
    - Initialize a Python project and set up a virtual environment.
    - Install necessary libraries (e.g., BeautifulSoup, requests).
- **Development:**
    - Write a script to fetch a webpage's content.
    - Parse the webpage to extract specific data (e.g., headlines, prices).
    - Display the extracted data in a readable format.
- **Testing:**
    - Test the scraper with different websites and data points.
- **Documentation:**
    - Provide a guide on how to use and modify the web scraper.

Resources:

- https://www.youtube.com/watch?v=4tAp9Lu0eDI
- https://realpython.com/beautiful-soup-web-scraper-python/

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