Next Gen Dev

June 2024 Batch

PYTHON PROG. TASK

Happy Interning :)

About Next Gen Dev

At NextGenDev, we are dedicated to shaping the future of technology by empowering the next generation of tech talent. We offer comprehensive internship programs and professional services in web development, UI/UX design, Android development, Java programming, Python programming, data science, C++, AI, ML, video editing, content writing, and copywriting.

Instructions

- Update your LinkedIn profiles and tag Next Gen Dev.
- For a PYTHON PROGRAMMING internship, you will need to **complete at least three tasks** at your convenience for successful completion of the internship.
- Maintain a separate GitHub repository (name Next_Gen_Dev for all the tasks and share the link of the GitHub repo in the task submission form (it will be given later through email).
- You can refer to online resources such as Google Search and read tutorials. Watch videos (For Help).
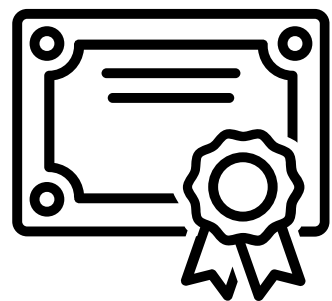
Submission

- A **task submission form** will be shared later through email. Till then please continue your task.
- A document needs to be created to showcase the understanding of the code for the Work/Task you have completed.
- The work can be hosted on LinkedIn for proof of your work and to build credibility among your peers. You can tag Next Gen Dev in such posts.
- Please add #Next Gen Dev in each of your task video postings on LinkedIn, Additionally, you can also add hashtags such as #internship #PYTHON PROGRAMMING for more reach and visibility.
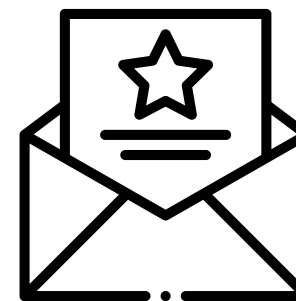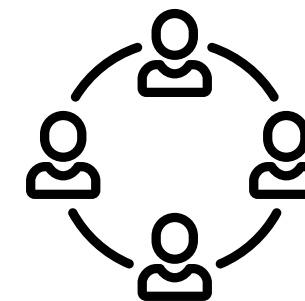
Perks

Certification

Experience

LOR (*PB)

Networking

Mentorship

Task List

- For a Python Programming internship, you will need to **complete any three (either task 1 or task 2 or task 3 or task 4 or task 5)** as per your convenience for successful completion of the internship.

Task Divisions

- **Task 1:** To-Do List
- **Task 2:** Calculator
- **Task 3:** Password Generator
- **Task 4:** Rock-Paper-Scissors Game
- **Task 5:** Contact Book

Task 1 : To-Do List

- A To-Do List application is a useful project that helps users manage and organize their tasks efficiently. This project aims to create a command-line or GUI-based application using Python, allowing users to create, update, and track their to-do lists

Task 2: Calculator

- Design a simple calculator with basic arithmetic operations. Prompt the user to input two numbers and an operation choice. Perform the calculation and display the result.

Task 3: Password Generator

- A password generator is a useful tool that generates strong and random passwords for users. This project aims to create a password generator application using Python, allowing users to specify the length and complexity of the password.

- User Input: Prompt the user to specify the desired length of the password.
- Generate Password: Use a combination of random characters to generate a password of the specified length.
- Display the Password: Print the generated password on the screen.

Task 4 : Rock-Paper-Scissors Game

- User Input: Prompt the user to choose rock, paper, or scissors.
- Computer Selection: Generate a random choice (rock, paper, or scissors) for the computer.
- Game Logic: Determine the winner based on the user's choice and the computer's choice. Rock beats scissors, scissors beat paper, and paper beats rock.
- Display Result: Show the user's choice and the computer's choice. Display the result, whether the user wins, loses, or it's a tie.
- Score Tracking (Optional): Keep track of the user's and computer's scores for multiple rounds.
- Play Again: Ask the user if they want to play another round.
- User Interface: Design a user-friendly interface with clear instructions and feedback.

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Task 5 : Contact Book

- Contact Information: Store name, phone number, email, and address for each contact.
- Add Contact: Allow users to add new contacts with their details.
- View Contact List: Display a list of all saved contacts with names and phone numbers.
- Search Contact: Implement a search function to find contacts by name or phone number.
- Update Contact: Enable users to update contact details.
- Delete Contact: Provide an option to delete a contact.
- User Interface: Design a user-friendly interface for easy interaction.

Thank You

All website link text, emails and socials on all pages are working hyperlinks :)
Do join our socials for the next steps. :)

www.nextgendev.in

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