CODTECH

INTERNSHIP
TASKS

CYBER SECURITY
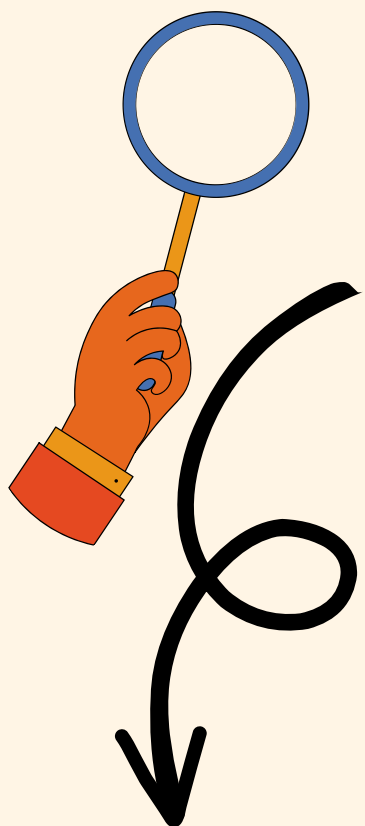
NOTE:

- MUST ATTEMPT FOUR OUT FOUR TASKS
- SUBMIT BEFORE DEADLINE
- USE INTERNET RESOURCES
- FOLLOW GROUP UPDATES

COMPLETION CERTFICATE WILL BE ISSUED ON Y0UR INTERNSHIP END DATE .

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INTERNSHIP

TASK -1

FILE INTEGRITY CHECKER

INSTRUCTIONS:

- BUILD A TOOL TO MONITOR CHANGES IN FILES BY CALCULATING AND COMPARING HASH VALUES.

- DELIVERABLE: A PYTHON SCRIPT USING LIBRARIES LIKE HASHLIB TO ENSURE FILE INTEGRITY.

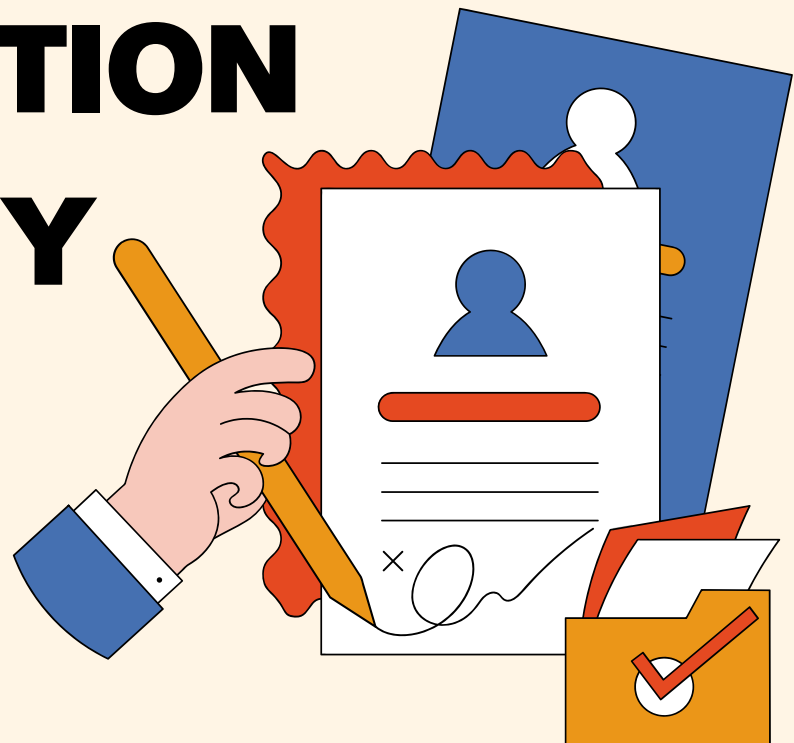COMPLETION CERTFICATE WILL BE ISSUED ON Y0UR INTERNSHIP END DATE .

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INTERNSHIP

TASK -2

WEB APPLICATION VULNERABILITY SCANNER

INSTRUCTIONS:

- DEVELOP A TOOL TO IDENTIFY COMMON VULNERABILITIES (E.G., SQL INJECTION, XSS) IN WEB APPLICATIONS.

- DELIVERABLE: A PYTHON-BASED SCANNER USING LIBRARIES LIKE REQUESTS AND BEAUTIFULSOUP.

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TASK -3

PENETRATION TESTING TOOLKIT

INSTRUCTIONS:

- BUILD A TOOLKIT WITH MULTIPLE MODULES (E.G., PORT SCANNER, BRUTE-FORCER) FOR PENETRATION TESTING.

- DELIVERABLE: A PYTHON-BASED MODULAR TOOLKIT WITH DETAILED DOCUMENTATION

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INTERNSHIP

TASK -4

ADVANCED ENCRYPTION TOOL

INSTRUCTIONS:

- BUILD A TOOL TO ENCRYPT AND DECRYPT FILES USING ADVANCED ALGORITHMS LIKE AES-256.

- DELIVERABLE: A ROBUST ENCRYPTION APPLICATION WITH A USER-FRIENDLY INTERFACE.

COMPLETION CERTFICATE WILL BE ISSUED ON Y0UR INTERNSHIP END DATE .

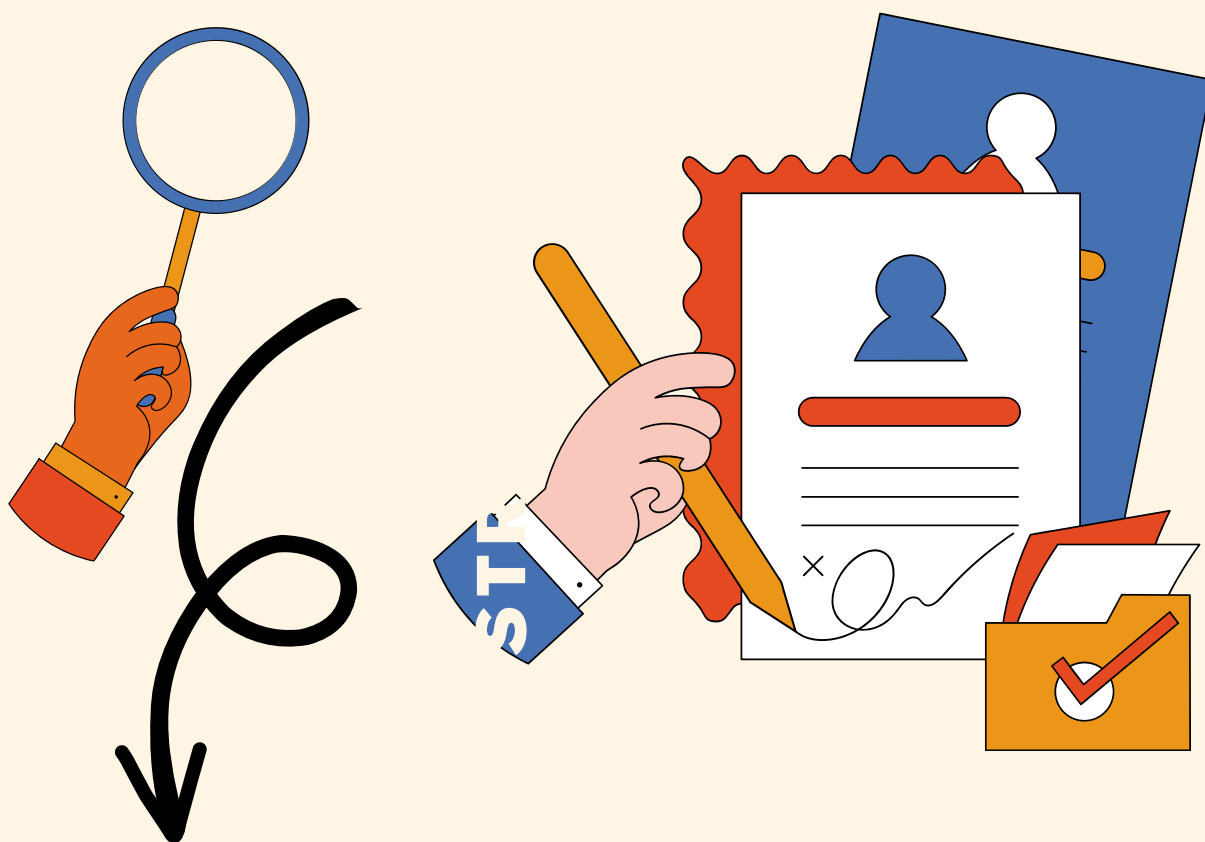## CODTECH

INSTRUCTIONS

- STORE ALL YOUR WORK-RELATED CODE AND FILES IN A GITHUB REPOSITORY.
- MAINTAIN PROPER COMMENTING IN YOUR CODE FOR BETTER UNDERSTANDING AND READABILITY.
- USE RESOURCES LIKE YOUTUBE, GOOGLE, AND CHATGPT TO HELP YOU COMPLETE TASKS EFFICIENTLY.
- FOLLOW THE VIDEO GUIDANCE PROVIDED IN WHATSAPP WHILE SUBMITTING YOUR TASKS.
- COMPLETE ALL FOUR TASKS AND SUBMIT THEM WITHIN THE DEADLINE WHILE WORKING AT YOUR CONVENIENCE.

COMPLETION CERTFICATE WILL BE ISSUED ON Y0UR INTERNSHIP END DATE .

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