



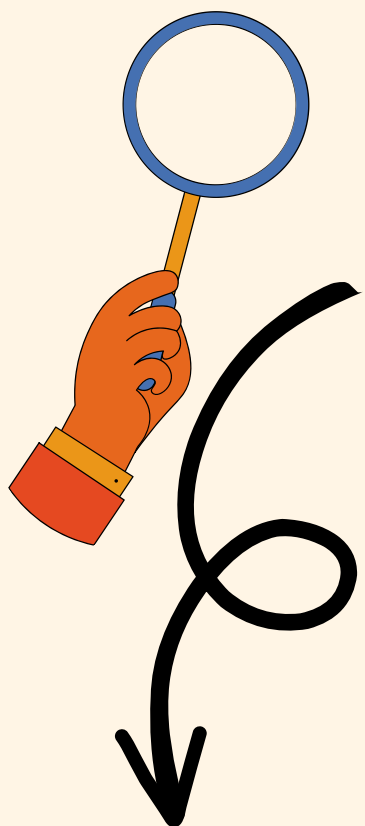
**CODTECH**

# INTERNSHIP





# TASKS



## BLOCK CHAIN TECHNOLOGIES



**NOTE:**

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

COMPLETION CERTIFICATE WILL BE  
ISSUED ON YOUR INTERNSHIP  
END DATE .

**CODTECH**



# CODTECH

# INTERNSHIP

# TASK -1



## BASIC SMART CONTRACT DEVELOPMENT

### INSTRUCTIONS:



**CREATE A SIMPLE SMART CONTRACT  
USING SOLIDITY FOR A TOKEN  
TRANSFER SYSTEM.**

**DELIVERABLE: THE SOLIDITY CODE  
AND DEPLOYMENT STEPS ON A TEST  
ETHEREUM NETWORK.**

**COMPLETION CERTIFICATE WILL BE  
ISSUED ON YOUR INTERNSHIP  
END DATE .**

# CODTECH



# CODTECH

# INTERNSHIP

# TASK -2



## TOKEN CREATION (ERC-20)



### INSTRUCTIONS:

**CREATE A CUSTOM ERC-20 TOKEN  
USING SOLIDITY AND DEPLOY IT ON  
AN ETHEREUM TESTNET.**

**DELIVERABLE: SMART CONTRACT CODE,  
TOKEN DETAILS, AND DEPLOYMENT  
PROOF**

**COMPLETION CERTIFICATE WILL BE  
ISSUED ON YOUR INTERNSHIP  
END DATE .**

# CODTECH



# CODTECH

# INTERNSHIP

# TASK -3



## DECENTRALIZED

## FINANCE (DEFI)

## APPLICATION



### INSTRUCTIONS:

**DEVELOP A DEFI APPLICATION FOR LENDING AND BORROWING TOKENS WITH INTEREST RATES CALCULATED DYNAMICALLY.**

**DELIVERABLE: A DAPP WITH SMART CONTRACTS, A FRONTEND, AND INTEGRATION WITH A TEST BLOCKCHAIN.**

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# CODTECH



# CODTECH

# INTERNSHIP

# TASK -4



## PRIVATE BLOCKCHAIN IMPLEMENTATION



### INSTRUCTIONS:

- SET UP A PRIVATE BLOCKCHAIN USING HYPERLEDGER FABRIC OR ETHEREUM AND DEPLOY A SAMPLE APPLICATION.
- DELIVERABLE: BLOCKCHAIN CONFIGURATION FILES, DEPLOYMENT STEPS, AND A WORKING DAPP.
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COMPLETION CERTIFICATE WILL BE  
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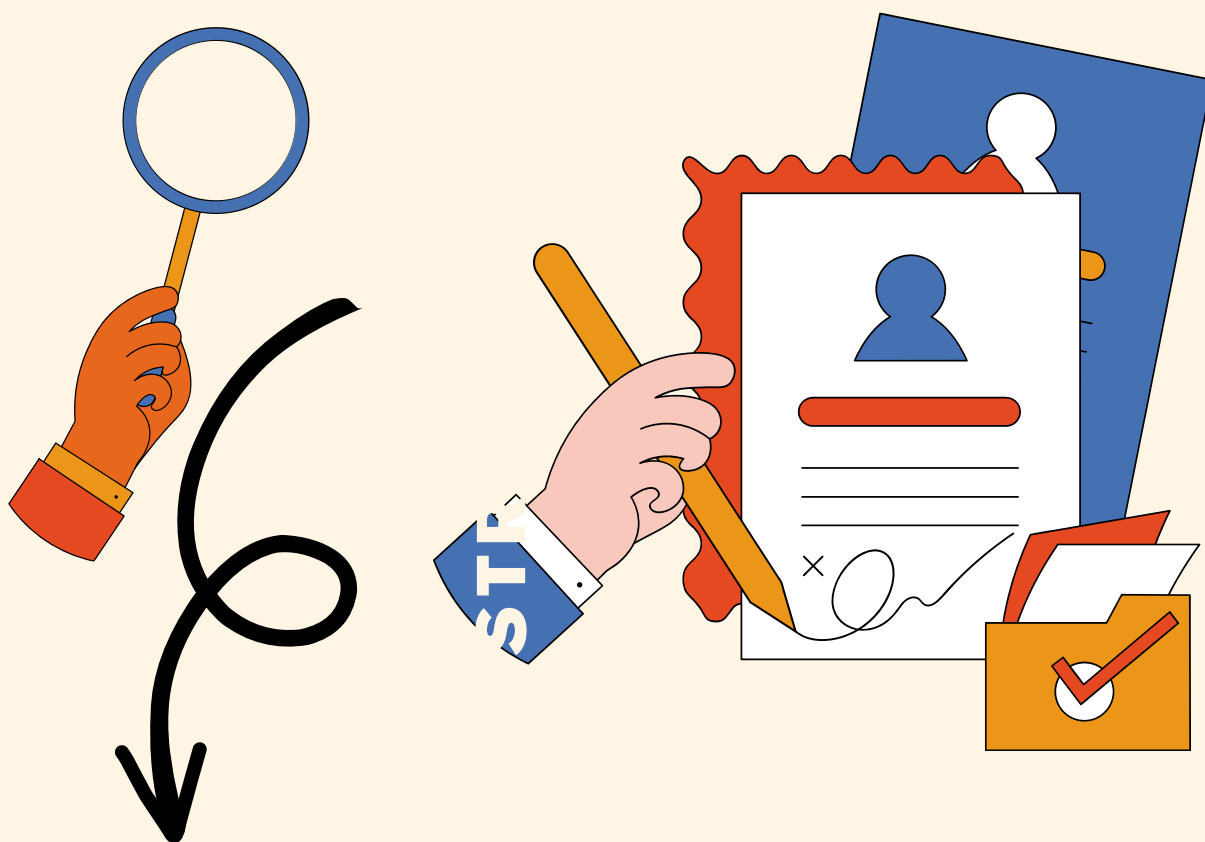
# CODTECH



# 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 CERTIFICATE WILL BE  
ISSUED ON YOUR INTERNSHIP  
END DATE .**

# CODTECH