Centurion	School:	Campus:	
	Academic Year: Subject Name:	Subject Code:	
UNIVERSITY Shaping Lives Empowering Communities	Semester: Program: Branch:	Specialization:	
	Date:		
	Applied and Action Learning (Learning by Doing and Discovery)		

Name of the Experiement: Tokenomics 101 – Analyzing Crypto Economics Objective/Aim:

To understand the concept of **Tokenomics** and analyze how tokens function within a blockchain ecosystem, including their creation, distribution, and role in influencing user behavior and network sustainability.

Apparatus/Software Used:

- VS code
- Brave for searching
- MetaMask wallet
- Reference sources: CoinMarketCap, CoinGecko, or project whitepapers

Theory concept:

Tokenomics (Token + Economics) refers to the study of the economic model behind a cryptocurrency or token. It defines how a token is created, distributed, used, and destroyed within a blockchain project. Strong tokenomics ensures the project's stability, sustainability, and user engagement.

Key Concepts:

- **Token Supply:** Total number of tokens that will ever exist (e.g., Bitcoin 21 million cap).
- Circulating Supply: Tokens currently in use or circulation.
- Inflationary / Deflationary: Determines whether new tokens are minted (inflation) or burned (deflation).
- Utility Token: Used for accessing products or services in an ecosystem (e.g., BNB, UNI).
- **Governance Token:** Provides voting rights in decentralized platforms (e.g., AAVE, COMP).
- Staking / Rewards: Incentivizes users to lock tokens for rewards, improving network security.
- Burn Mechanism: Reduces total supply by destroying tokens, increasing scarcity.

Procedure:

1. Initialize Token Supply:

Define total supply of tokens (e.g., 1,000,000).

2. Allocate Tokens:

o Divide the total supply into categories such as:

Team: 20%
Investors: 30%
Public Sale: 40%
Reserve: 10%

3. Simulate Circulation:

o Track how tokens enter the market through staking, trading, or rewards.

4. Apply Token Burning (Optional):

o Remove a small percentage of tokens from circulation to simulate deflation.

5. Calculate Market Value:

Token price = Market Cap ÷ Circulating Supply

6. Display Final Metrics:

Show total supply, circulating supply, burned tokens, and token price changes.

Initial Token Supply: 1,000,000

Allocation:

Team: 200,000 Investors: 300,000 Public Sale: 400,000 Reserve: 100,000

After Circulation:

Burned Tokens: 20,000 New Circulating Supply: 980,000 Market Cap: \$4,900,000 Token Price: \$5.00

Output Example:

Total Supply: 1000000 Tokens Burned: 20000 Circulating Supply: 980000 Current Token Price: \$5.00

Observation:

Understanding tokenomics is essential for evaluating a cryptocurrency's real-world potential. Projects with transparent distribution, clear utility, and controlled inflation models are more likely to achieve long-term success.

ASSESSMENT

Rubrics	Full Mark	Marks Obtained	Remarks
Concept	10		
Planning and Execution/	10		
Practical Simulation/ Programming			
Result and Interpretation	10		
Record of Applied and Action Learning	10		
Viva	10		
Total	50		

Signature of the Student:

Name:

Signature of the Faculty:

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*As applicable according to the experiment. Two sheets per experiment (10-20) to be used.