School: ..... Campus: .....

Academic Year: ..... Subject Name: ..... Subject Code: .....

Semester: ..... Program: ..... Branch: ..... Specialization: .....

Date: .....

Applied and Action Learning

(Learning by Doing and Discovery)

Name of the Experiement : Tokenomics 101 – Analyzing Crypto Economics

* Coding Phase: Pseudo Code / Flow Chart / Algorithm

1. **Initialize Token Supply:**
   - Define total supply of tokens (e.g., 1,000,000).

2. **Allocate Tokens:**
   - Divide the total supply into categories such as:
     - Team: 20%
     - Investors: 30%
     - Public Sale: 40%
     - Reserve: 10%

3. **Simulate Circulation:**
   - Track how tokens enter the market through staking, trading, or rewards.

4. **Apply Token Burning (Optional):**
   - 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.

Software used

1. VS Code.
2. MS Word.
3. Brave for researching.

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

* Implementation Phase: Final Output (no error)

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
```

* Observations:

- Token allocation strategy directly affects token scarcity and investor trust.
- Burning mechanisms reduce total supply, helping increase token value over time.
- Staking rewards motivate long-term participation and reduce market volatility.
- A balanced tokenomics model ensures both early and late participants benefit.
- Inflationary models help maintain liquidity, while deflationary models promote scarcity.
- Projects with transparent and fair tokenomics attract more community engagement.

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ASSESSMENT

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

Signature of the Student:

Name :

Regn. No. :

Signature of the Faculty:

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