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	School:	School: Campus:			
	Academic Year: Subject Na	me:	Subject Code:		
Centu UNIVEF Shaping Lives Empowering Con	RSITY Semester: Program:	Branch:	Specialization:		
	Date: Clas	sroom I parn	ina		
	Classroom Learning (Learning by Listening and Observations)				
	(=======	~,			
Name of the ToPic: Crypto Currency and their Names Learning Outcome: Concepts learned (Mention 2/3 principles):					
Based on the classwork, the principal concepts I have learned include:					
	The fundamental concept of cryptocurren medium of exchange through a computer				
2. T	The complete architecture of how cryptoc	urrencies use cryptogi	raphic techniques to secure		
transactions, control the creation of new units, and verify the transfer of assets.					
	The characteristics of different cryptocurre their own blockchain and tokens (like ERC		•		
New	techniques learned:				
Additio	onally, I have acquired new knowledge in th	e following areas:			
r	Techniques for understanding the purpose a reflects its function (e.g., "Ether" for fueling 'Monero" meaning "coin" in Esperanto).				
	_	cedures for evaluating the differences between cryptocurrencies based on their consensus chanisms, such as Proof-of-Work (Bitcoin), Proof-of-Stake (Ethereum, Cardano), and others.			
	e process of how transactions are broadcast, verified, and added to the public ledger (blockchain) by twork participants.				
4. N	4. Methods for analyzing market data using ticker symbols (e.g., BTC, ETH, ADA) to track performance o				

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cryptocurrency exchanges.

* Related Project/Practice work experienced and learned:

During the practice sessions of the lab work, I engaged in and developed proficiency with programs and simulations in the following areas:

- 1. Setting up and interacting with a cryptocurrency wallet using a testnet to understand public and private key generation and management.
- 2. Writing a simple Python script using a library like web3.py to check the balance of a specific cryptocurrency address on a blockchain.
- 3. Simulating a transaction on a testnet (e.g., Ethereum's Goerli or Sepolia) to understand gas fees and transaction confirmation.
- 4. Creating a comparative chart of different cryptocurrencies based on key metrics like market cap, transaction speed, and consensus algorithm.

* New Software/Machine/Tool/Equipment/Experiment learned:

During the lab session, I used **MetaMask** as a cryptocurrency wallet, **Etherscan** and **Blockchair** as blockchain explorers to track transactions, and **CoinGecko** to analyze market data and understand the naming conventions and ticker symbols of various cryptocurrencies..

* Application of concept(s) (preferably real life scenario):

- 1. **Store of Value (SoV):** Bitcoin (BTC), often referred to as 'digital gold', is used as a decentralized store of value and a hedge against inflation.
- 2. **Smart Contract Platform:** Ether (ETH) is used primarily to pay for transaction fees and computational services on the Ethereum network, powering decentralized applications (dApps).
- 3. **Private Transactions:** Cryptocurrencies like Monero (XMR) and Zcash (ZEC) are used in scenarios requiring enhanced financial privacy and untraceable transactions.

* Case Studies/Examples:

- Cross-Border Remittances: Cryptocurrencies like Ripple (XRP) and Stellar (XLM) are used by financial
 institutions to facilitate fast and low-cost cross-border money transfers, challenging traditional systems
 like SWIFT.
- 2. **Decentralized Finance (DeFi):** Tokens like Aave (AAVE) and Uniswap (UNI) are used within their respective DeFi platforms for lending, borrowing, and liquidity provision, creating an alternative financial system.
- 3. **Supply Chain Management:** VeChain (VET) is used by enterprises to track the authenticity and lifecycle of products, from production to delivery, ensuring transparency and combating counterfeit goods.

Assessment:	Signature of the Student:
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Marks Obtained: / 10 Name: PN Archana

Regn. No.: 240720100147

Signature of the Faculty:

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^{*}As applicable according to the topic.
One sheet per topic (10-20) to be used.