Standards and Functions Implemented

ERC20 Standard

The contract implements the **ERC20** token standard, which is the most widely used standard for fungible tokens on Ethereum.

Core ERC20 Functions:

- name() Returns "MyToken"
- symbol() Returns "MTK"
- decimals() Returns 18 (default)
- totalSupply() Returns total token supply
- balanceOf(address account) Returns balance of an account
- transfer(address to, uint256 amount) Transfers tokens to another address
- allowance(address owner, address spender) Returns remaining allowance
- approve(address spender, uint256 amount) Approves spender to use tokens
- transferFrom(address from, address to, uint256 amount) Transfers tokens on behalf of owner

Additional Functions:

- mint(address to, uint256 amount) Mints new tokens (owner only)
- owner() Returns contract owner address
- transferOwnership(address newOwner) Transfers ownership

Inherited Contracts:

- OpenZeppelin ERC20 Standard implementation
- OpenZeppelin Ownable Access control for minting