For token sale we will require a smart contract that can be owner of the token smart contract and record transaction with addresses

## Constructor-

Constructor in this case will take two values, token address and token price In order to initiate conversation between token sake and token smart contract

```
constructor(Tokens _token1, uint256 _tokenPrice1) Ownable(msg.sender){
   token = _token1;
   tokenPrice = _tokenPrice1;
}
```

Sale status is used to define status of the sale 0 = it has not started

1= it is live

2 = it has ended

```
function setSaleStatus(uint256 _saleStatus 1) public onlyOwner{
    saleStatus = _saleStatus 1;
}

function viewSaleStatus() public view onlyOwner {
    if (saleStatus = 0 , "The sale hasn't started yet");
    elif(saleStatus = 1, "The sale is live");
    else ("sale is over");
    return saleStatus;
}
```

Buy tokens is used to take money from the user and register that transaction for vesting contract

```
function buyTokens(uint256 numberOfTokens ) external payable {
    require(saleStatus = 1);
    require(msg.value == numberOfTokens nul(tokenPrice), "Not enough amount");
    require(token.balanceOf(address(this)) >= numberOfTokens numberOfT
```