audit report 0x6b093998D36f2C7F0cc359441FBB24CC629D5FF0

Sever Issues:

```
AdvancedTokenStorage.balances (Desktop/Torque.sol#583) is never
initialized. It is used in:
    - AdvancedTokenStorage.balanceOf(address) (Desktop/
Torque.sol#595-602)
AdvancedTokenStorage.allowed (Desktop/Torque.sol#584) is never
initialized. It is used in:
    - AdvancedTokenStorage.allowance(address,address) (Desktop/
Torque.sol#604-612)
AdvancedTokenStorage.totalSupply_ (Desktop/Torque.sol#585) is never
initialized. It is used in:
    - AdvancedTokenStorage.totalSupply() (Desktop/Torque.sol#587-593)
```

Remove Uninitialized state variable.

Mild Severity:

```
Contract locking ether found:
    Contract LoanToken (Desktop/Torque.sol#615-665) has payable
functions:
     - LoanToken.fallback() (Desktop/Torque.sol#628-647)
    But does not have a function to withdraw the ether
```

Remove the payable attribute or add a withdraw function.

Low Severity:

```
Address.isContract(address) (Desktop/Torque.sol#361-370) uses assembly
    - INLINE ASM (Desktop/Torque.sol#368)
Pausable._isPaused(bytes4) (Desktop/Torque.sol#508-518) uses assembly
    - INLINE ASM (Desktop/Torque.sol#515-517)
LoanToken.fallback() (Desktop/Torque.sol#628-647) uses assembly
    - INLINE ASM (Desktop/Torque.sol#638-646)
```

Avoid using evm assembly

Low Severity:

```
Address.sendValue(address,uint256) (Desktop/Torque.sol#400-406) is
never used and should be removed
Address.toPayable(address) (Desktop/Torque.sol#378-380) is never used
and should be removed
Context._msgData() (Desktop/Torque.sol#429-432) is never used and
should be removed
SafeMath.add(uint256,uint256) (Desktop/Torque.sol#57-62) is never used
and should be removed
SafeMath.div(uint256,uint256) (Desktop/Torque.sol#129-131) is never
used and should be removed
```

```
SafeMath.div(uint256,uint256,string) (Desktop/Torque.sol#146-153) is
never used and should be removed
SafeMath.divCeil(uint256,uint256) (Desktop/Torque.sol#158-160) is
never used and should be removed
SafeMath.divCeil(uint256,uint256,string) (Desktop/Torque.sol#165-175)
is never used and should be removed
SafeMath.min256(uint256,uint256) (Desktop/Torque.sol#210-212) is never
used and should be removed
SafeMath.mod(uint256,uint256) (Desktop/Torque.sol#188-190) is never
used and should be removed
SafeMath.mod(uint256,uint256,string) (Desktop/Torque.sol#205-208) is
never used and should be removed
SafeMath.mul(uint256,uint256) (Desktop/Torque.sol#104-116) is never
used and should be removed
SafeMath.sub(uint256,uint256) (Desktop/Torque.sol#73-75) is never used
and should be removed
SafeMath.sub(uint256,uint256,string) (Desktop/Torque.sol#88-93) is
never used and should be removed
SignedSafeMath.add(int256,int256) (Desktop/Torque.sol#296-301) is
never used and should be removed
SignedSafeMath.div(int256,int256) (Desktop/Torque.sol#260-267) is
never used and should be removed
SignedSafeMath.mul(int256,int256) (Desktop/Torque.sol#232-246) is
never used and should be removed
SignedSafeMath.sub(int256,int256) (Desktop/Torque.sol#279-284) is
never used and should be removed
```

Remove unused functions.

Low Severity:

```
Constant Pausable.Pausable_FunctionPause (Desktop/Torque.sol#501) is
not in UPPER_CASE_WITH_UNDERSCORES
Constant LoanTokenBase.sWEI_PRECISION (Desktop/Torque.sol#526) is not
in UPPER_CASE_WITH_UNDERSCORES
Variable LoanTokenBase._flTotalAssetSupply (Desktop/Torque.sol#546) is
not in mixedCase
Parameter LoanToken.setTarget(address)._newTarget (Desktop/
Torque.sol#650) is not in mixedCase
```

Follow the Solidity naming convention: https://solidity.readthedocs.io/en/v0.4.25/style-guide.html#naming-conventions

Low Severity:

```
LoanTokenBase.WEI_PRECISION (Desktop/Torque.sol#523) is never used in
LoanToken (Desktop/Torque.sol#615-665)
```

```
LoanTokenBase.WEI_PERCENT_PRECISION (Desktop/Torque.sol#524) is never
used in LoanToken (Desktop/Torque.sol#615-665)
LoanTokenBase.sWEI_PRECISION (Desktop/Torque.sol#526) is never used in
LoanToken (Desktop/Torque.sol#615-665)
LoanTokenBase.lastSettleTime_ (Desktop/Torque.sol#533) is never used
in LoanToken (Desktop/Torque.sol#615-665)
LoanTokenBase._flTotalAssetSupply (Desktop/Torque.sol#546) is never
used in LoanToken (Desktop/Torque.sol#615-665)
LoanTokenBase.checkpointPrices_ (Desktop/Torque.sol#551) is never used
in LoanToken (Desktop/Torque.sol#615-665)
```

Remove unused variables

Low Severity:

```
IERC20.decimals (Desktop/Torque.sol#20) should be constant
IERC20.name (Desktop/Torque.sol#19) should be constant
IERC20.symbol (Desktop/Torque.sol#21) should be constant
LoanTokenBase.baseRate (Desktop/Torque.sol#537) should be constant
LoanTokenBase.checkpointSupply (Desktop/Torque.sol#547) should be
constant
LoanTokenBase.decimals (Desktop/Torque.sol#530) should be constant
LoanTokenBase.initialPrice (Desktop/Torque.sol#548) should be constant
LoanTokenBase.kinkLevel (Desktop/Torque.sol#543) should be constant
LoanTokenBase.loanTokenAddress (Desktop/Torque.sol#535) should be
constant
LoanTokenBase.lowUtilBaseRate (Desktop/Torque.sol#539) should be
constant
LoanTokenBase.lowUtilRateMultiplier (Desktop/Torque.sol#540) should be
constant
LoanTokenBase.maxScaleRate (Desktop/Torque.sol#544) should be constant
LoanTokenBase.name (Desktop/Torque.sol#528) should be constant
LoanTokenBase.rateMultiplier (Desktop/Torque.sol#538) should be
constant
LoanTokenBase.symbol (Desktop/Torque.sol#529) should be constant
LoanTokenBase.targetLevel (Desktop/Torque.sol#542) should be constant
```

Add the constant attributes to state variables that never change.

Gas Optimization:

```
totalSupply() should be declared external:
    - IERC20.totalSupply() (Desktop/Torque.sol#22)
balanceOf(address) should be declared external:
    - IERC20.balanceOf(address) (Desktop/Torque.sol#23)
allowance(address,address) should be declared external:
    - IERC20.allowance(address,address) (Desktop/Torque.sol#24)
approve(address,uint256) should be declared external:
    - IERC20.approve(address,uint256) (Desktop/Torque.sol#25)
transfer(address,uint256) should be declared external:
    - IERC20.transfer(address,uint256) (Desktop/Torque.sol#26)
transferFrom(address,address,uint256) should be declared external:
    - IERC20.transferFrom(address,address,uint256) (Desktop/
Torque.sol#27)
owner() should be declared external:
    - Ownable.owner() (Desktop/Torque.sol#461-463)
setTarget(address) should be declared external:
    - LoanToken.setTarget(address) (Desktop/Torque.sol#649-655)
```

Use the external attribute for functions never called from the contract to save gas.