

HekasStake Contract

//FUNCTIONS//

```
stake (lockTime, rewardInterval) {value: msg.value}
```

@RETURN => A number that represents the stake id.

@PARAMS => *lockTime*: An amount that represents how many days that user wants to stake.

i.e. *lockTime* = 55 => it means 55 days from now.

rewardInterval => An amount that represents the days you want to claim your reward until reaching lock time.

i.e. *rewardInterval* = 10 => it means every 10 days, you'll be able to claim your reward.

Value => It is a built-in parameter for this function in order to specify the amount that user want to stake in WEI.

@NOTICE => Usage in ethers.js => `stakeContract.stake(lockTime, rewardInterval) { value: 40000000000000000000 }`

claimReward(**stakeId**)

@PARAMS => *stakeId*: A number which represents the id of stake.

unStake(**stakeId**)

@PARAMS => *stakeId*: A number which represents the id of stake.

changeRewardRate(**newRewardRate**)

@PARAMS => *newRewardRate*: A number which will be the new reward rate.

getStakeInformation(**stakeId**)

@PARAMS => *stakeId*: A number which represents the id of stake.

@RETURN => an array which includes different values:

[stakeholder, stakeAmount, lockTime, intervalOfClaim,
latestClaim,upcomingClaim, holderTA, holderTL, holderTI,
ongoing]

@NOTICE => *stakeHolder*: The address that is staking.

stakeAmount : An amount that stakeholder has staked.

lockTime : Unix timestamp that shows when the stake will be ended

intervalOfClaim : A number that shows the reward interval in days

latestClaim : Unix timestamp that shows when was the latest time that user claimed the reward

upcomingClaim: Unix timestamp that shows when stake holder can claim his reward again

holderTA, holderTL, holderTI : Reward rates that have been set automatically.

ongoing: A Boolean that indicates user claimed all his rewards or not.
If user claim all rewards, then he can unstake.

getStakeIdReward(*stakeId*)

@PARAMS => *stakeId*: A number which represents the id of stake.

@RETURN => A number which represents the reward in WEI that user can earn when calling 'claimReward' function every time.

Withdraw(*amount*)

@PARAMS => *amount* : A number that represents how much the contract owner wants to withdraw in WEI.

i.e. 3000000000000000000 in WEI means 3 ETH

deposit() {value: msg.value}

Value => It is a built-in parameter for this function in order to specify the amount that user want to stake in WEI.

@NOTICE => Usage in ethers.js => stakeContract.deposit() { value :4000000000000000000 }

This function will deposit native coin to the contract.

changeOwner(*newOwner*)

@PARAMS => *newOwner*: A string which represents the address of new owner.

getRewardRate()

@RETURN => Returns the reward rate value

getStakeIds()

@RETURN => A number which shows the total stake positions in contract including completed and ongoing stakes.