

# 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 }

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claimReward(**stakeId**)

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

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unStake(**stakeId**)

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

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changeRewardRate(**newRewardRate**)

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

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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.

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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.

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getStoredRewardsUptoNow(*stakeId*)

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

**@RETURN** => total rewards that are unclaimed up to now.

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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

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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.

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changeOwner(*newOwner*)

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

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getRewardRate()

**@RETURN** => Returns the reward rate value

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getStakeIds()

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