# Transaction Simulation and Decision Bot

## Introduction

The purpose of advisorbot is concluded as below:

1. Give main statistics for cryptocurrency transaction.
2. Simulate cryptocurrency transaction.
3. Give trading advice on order type, product, price, amount in trading.

## **Commands table**

A table reporting which commands you were able to implement and which you were not able to implement.

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| --- | --- | --- | --- |
|  | Command Line | Output Example | Description |
| C1 | help | user> help  advisorbot> The available commands are help, help <cmd>, prod, min, max, avg, predict, time, step | Print out all available commands. |
| C2 | help prod | user> help prod  advisorbot> prod -> ETH/BTC,DOGE/BTC,etc | Output help for the specified command. |
| help min | user> help min  advisorbot> min ETH/BTC ask -> The min ask for ETH/BTC |
| help max | user> help max  advisorbot> max ETH/BTC ask -> The max ask for ETH/BTC |
| help predict | user> help predict  advisorbot> predict max ETH/BTC bid -> The average ETH/BTC ask price over the last 10 time steps |
| help avg | user> help avg  advisorbot> avg ETH/BTC bid 10 -> average ETH/BTC bid over last 10 time steps |
| help time | user> help time  advisorbot> time -> 2020/03/17 17:01:24 |
| help step | user> help step  advisorbot> step -> now at 2020/03/17 17:01:30 |
| help wallet | user>help wallet  advisorbot> wallet -> BTC : 10.000000 |
| help makebid | user> help makebid  advisorbot>  makebid -> Make a bid - enter the order: product,price,amount, eg ETH/BTC,200,0.5  ETH/BTC,200,0.5 ->  Wallet::canFulfillOrder BTC : 100  Wallet has insufficient funds . |
| help makeask | user> help makeask  advisorbot> makeask -> Make an ask - enter the order: product,price,amount, eg ETH/BTC,200,0.5  ETH/BTC,200,0.5 ->  Wallet::canFulfillOrder ETH : 0.5  Wallet has insufficient funds . |
| help spread | user> help spread  advisorbot>  spread ETH/BT -> Spread for ETH/BTC : 5.3e-07 |
| help enter | user> help enter  advisorbot>  enter ->  You can ask BTC/USDT  You can bid DOGE/BTC  You can bid ETH/BTC  enter advice -> Advisorbot: You can ask BTC/USDT |
| help advise | user> help enter  advisorbot>  Advice ->  Wallet::canFulfillOrder BTC : 0.00052289  Advisorbot recommand ask : BTC/USDT,9493.81,0.00052289  auto advice ->  Going to next time frame.  Going to next time frame  Wallet::canFulfillOrder BTC : 0.003 |
| C3 | prod | user> prod  advisorbot> BTC/USDT DOGE/BTC DOGE/USDT ETH/BTC ETH/USDT | List available products. |
| C4 | min product bid/ask | user> min ETH/BTC ask  advisorbot> Min ask price on ETH/BTC : 0.0248467 | Find minimum bid or ask for product in current time. |
| C5 | max product bid/ask | user> max ETH/BTC ask  advisorbot> Max ask price on ETH/BTC : 0.0252069 | Find maximum bid or ask for product in current time. |
| C6 | avg product ask/bid timesteps | user> avg ETH/BTC bid 10  advisorbot>  Your setting timeover is 10 Your setting timeover is over actual passed time. Adviserbot set passed timestamps to 3 For last 3 timestamps, bid ETH/BTC average : 0.0252119 | Compute average ask or bid for the sent product over the sent number of time steps. |
| user> avg ETH/BTC bid 10  advisorbot> Your setting timeover is 10 For last 10 timestamps, bid ETH/BTC average : 0.0252135 |
| user> avg ETH/BTC bid 2  advisorbot> Your setting timeover is 2 For last 2 timestamps, bid ETH/BTC average : 0.0252132 |
| C7 | predict max/min product ask/bid | user> predict max ETH/BTC bid  advisorbot>  Deflaut setting timeover is 10 Your setting timeover is over actual passed time. Adviserbot set passed timestamps to 3 Predict bid ETH/BTC max : 0.0248296 ; in last 3 timestamps | Predict max or min ask or bid for the sent product for the next time. |
| user> predict max ETH/BTC bid  advisorbot> Deflaut setting timeover is 10 Predict bid ETH/BTC max : 0.0248257 ; in last 10 timestamps |
| user> predict min ETH/BTC bid  advisorbot> Deflaut setting timeover is 10 Predict bid ETH/BTC min : 0.0245734 ; in last 10 timestamps |
| C8 | time | user> time  advisorbot> Current time is 2020/06/01 11:57:40.339453 | State current time in dataset, i.e. which timeframe are we looking at. |
| C9 | step | user> step  advisorbot>  Going to next time frame.  Now at 2020/06/01 11:57:45.344474 | Move to next time step and process sale. |
| user> step  advisorbot>  Going to next time frame.  Sale price: 0.0248298 amount 24  Sale price: 0.024835 amount 8.1e-07  Now at 2020/06/01 11:59:50.468878 |
| Custom1 | spread ETH/BTC | user> spread ETH/BTC  advisorbot> Spread for ETH/BTC : 5.3e-07 | Compute spread for the sent product in current time. |
| Custom2 | enter | user> enter  advisorbot>  You can ask BTC/USDT You can bid DOGE/BTC You can bid ETH/BTC | Output product can bid or ask based on wallet status. |
| user> enter advice  advisorbot>  Advisorbot: You can ask BTC/USDT | Output advisorbot ask or bid advise by trading strategy. |
| user> enter advice  advisorbot>  Advisorbot : There is no advice on bid or ask. |
| Custom3 | advice | user> advice  advisorbot>  Wallet::canFulfillOrder BTC : 0.00052289 Advisorbot recommand ask : BTC/USDT,9493.81,0.00052289 | Output advisorbot advise on product, order type, price, amount by trading strategy. |
| user> advice  advisorbot> Advisorbot : There is no advice on product, ordertype, price, amount. |
| user> auto advice  advisorbot>  Going to next time frame.  Going to next time frame.  Wallet::canFulfillOrder BTC : 0.003 Advisorbot recommand ask : BTC/USDT,9498.53,0.003 | Keep going to next timestamp until advisorbot find an advise and output to user. |
| Basic1 | wallet | user> wallet  advisorbot> BTC : 10.000000 | Output state in wallet. |
| Basic2 | makeask | user> makeask  advisorbot>  Make an ask - enter the order: product,price,amount, eg ETH/BTC,200,0.5 user> ETH/BTC,200,0.5 advisorbot>  Wallet::canFulfillOrder ETH : 0.5 Wallet has insufficient funds . | Make an ask by sent order. |
| Basic3 | makebid | user> makebid  advisorbot>  Make a bid - enter the order: product,price,amount, eg ETH/BTC,200,0.5 user> ETH/BTC,200,0.5 advisorbot>  Wallet::canFulfillOrder BTC : 100 Wallet has insufficient funds . | Make a bid by sent order. |