

In current This study webave-examines a no-dividend single-stock whose prices observe aexhibiting regime-switching geometric Brownian motion. Also, the stockpay no dividends. Given the current price of a stock, the sold-selling axiom consists of comprises a target price and a stop-loss limit. A "-sell" decision is made when the price reaches either the target price or the set stop-loss limit. The main purpose is to benefit investors. -During their financial careers, One-investors often pick up the a bad-weak stock or the purchase is made is-at the wrong time-in reality. So, Therefore, it is necessary to sel-sell it-such a stock as soon as possible to stop losses. In practice, a-target prices, are is-typically — around a gain of 15-% — 5-5 % and a-stop-loss limit-s generally vary from 5-%-to-to-20-% –. -It isHowever, however, it is not a good idea to adopt uniform rules for booking profits and losses-taking, because Each-each stock has different are has it's own-characteristics. Moreoveer, it each stock should be treated differently with different liquidation rules.

In this study, wWe consider sets of target_prices and stop-loss limits and choose determine those a target price and stop-loss Limit in that set promise to enhance an expected reward function. We aim, at deriving these price limits...,r_In addition, we get determine the an expected target period and the probability of making gaining and losing_____money. In practice, a frequently used criterion for measuring the performance of portfolios is the percentage return prover a given time unit time. However However, such a criterion has lead to many transactions because of it encourages taking small profits-taking within the a short holding time-period (τ 0)-__.-Clearly.³⁷ such a criterion is not-unsuitable to-for retail investors, especially those because who of the cannot limited time available for constantly monitor their trading and Additional additional transaction costs. In contrast, A-a discount factor, in contrast reduces use out very the frequency of transactions-because it replaces the time as a determinant of holding period factor is

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www.enago.com | www.enago.com.tr | www.enago.com.br | www.enago.de | www.enago.tw | www.enago.cn | www.enago.co.kr | www.enago.ru **Comment [A1]:** This phrase was highly redundant, which should not be used in academic manuscripts. We have deleted it from all the instances in this part.

Comment [A2]: These two sentences have been merged as the second sentence provided supporting information for the first sentence.

Comment [A3]: Transitional phrases that are necessary to denote the shift in the tone of sentences should be mentioned in the beginning of sentences to ensure clarity among readers.



X

replaced by discount rate. Theis da discounted-reward function is <u>-common</u> natural in many financial

problems.

Comment [A4]: Voice places emphasis either on the doer of the action or the receiver of the action. Depending on what is crucial information, the active or passive voice can be used.

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