

$$P(H|P) = 0.161 < 1 - 0.161 = P(!H|P).$$

Therefore when P then the classifier says: No Hack.

Similarly

$$P(H|!P) < P(!H|!P)$$

Therefore when $!P$ then the classifier says: No Hack.

That is, the classifier always says No Hack
and therefore the overall probability of error
is equal to $P(H) = 0.01$.

P.S. The probability of error, given P
is equal to $p(H|P) = 0.161$.