pragma solidity ^ 0.5.1;

/// @title GenerateBid contract

/// @author Andrea Bruno 585457

/// @notice This contract helps people in making bids. If deployed locally, no gas is required.

/// @dev The following comments are written using the Solidity NatSpec Format.

contract GenerateBid {

// Every bid is composed by one value, one nonce and one hash.

struct BidHelper {

uint value;

bytes32 nonce;

bytes32 hash;

}

BidHelper public bid;

/// @notice This function generates the nonce and the hash needed in the Vickrey Auction.

/// @param \_bidValue is the desired bid.

function generateBid(uint \_bidValue) public {

bid.value = \_bidValue;

bid.nonce = keccak256(abi.encodePacked(block.timestamp));

bid.hash = keccak256(abi.encodePacked(\_bidValue, bid.nonce));

}

}