Day 6

Advance Blockchain

Lottery Smart Contract:

```
pragma solidity >=0.5.17 <0.7.3;</pre>
contract LotteryContract {
    address owner = 0xda822dfd0846F4F9C830C2fB3687e3C32D70d465;
    uint total amount;
    uint winner_index = 999999;
    address winner_address;
    address[] participants;
    modifier onlyOwner()
    {
        require(msg.sender == owner, "Only owner can access this.");
        _;
    }
    function participate() payable public{
        require(msg.value > 1 ether, "Please use more than 1
ether");
        participants.push(msg.sender);
    }
    function potValue() public view returns(uint) {
        return address(this).balance;
    }
    function Participants_List() public view returns(address[]
memory) {
        return participants;
    }
    function luckyWinner() public payable onlyOwner () {
```

```
winner_index =
uint(keccak256(abi.encodePacked(block.difficulty, now,
participants))) % participants.length;
       winner_address = participants[winner_index];
       address payable winner =
address(uint160(participants[winner_index]));
       winner.transfer(address(this).balance);
       participants = new address[](0);
       // return winner;
   }
   function show_winner() public view returns(address)
       if(winner_index != 999999)
       return winner_address;
       else
       }
}
```