pragma solidity ^0.4.25;

contract agriculture

{

address farmer;

struct cropdata{

string soil\_type;

uint potassium\_input;

uint nitrogen\_input;

uint phosphorous\_input;

string season;

uint moisture\_content;

string crop\_grown;

address accountaddress;

string name;

}

mapping(address => cropdata) crops;

address[] FarmerAccounts;

function setInput(address \_address,string soiltype, uint potassium,uint nitrogen,uint phosphorous,string \_season,uint moisture,string crop\_input,string farmer\_name) public {

var crop = crops[\_address];

crops[msg.sender].accountaddress = msg.sender;

crops[msg.sender].soil\_type = soiltype;

crops[msg.sender].potassium\_input = potassium;

crops[msg.sender].nitrogen\_input = nitrogen;

crops[msg.sender].phosphorous\_input = phosphorous;

crops[msg.sender].season = \_season;

crops[msg.sender].moisture\_content = moisture;

crops[msg.sender].crop\_grown = crop\_input;

crops[msg.sender].name = farmer\_name;

FarmerAccounts.push(\_address) -1;

}

function GetData(address farm) public returns (address,string,uint,uint,uint,string,uint){

return (crops[farm].accountaddress,crops[farm].soil\_type,crops[farm].potassium\_input,crops[farm].nitrogen\_input,crops[farm].phosphorous\_input,crops[farm].season,crops[farm].moisture\_content);

}

function GetInfo(address farm) public returns(string,string){

return (crops[farm].crop\_grown,crops[farm].name);

}

}