

### PS-1 : Voting System :

1. Create a array of Parties / Candidates
2. We can use loop to add <sup>more</sup> Candidates  
↳ There should be more than one candidate



OR create a function  
as Add\_candidate !

3. Vote (condition)  
↳ Already vote nhi hona chahiye  
↳ Age  $\geq 18$

4. Check if the entered name is same with the list we had.

### Add\_Candidate\_nm

name\_of\_candidate:

ccc



Calldata



Parameters

transact

vote

aaa

list\_of\_candida...

0: string[]: aaa,bbb,ccc

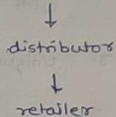
Winner

0: string: aaa

PS-3 : Supply chain → for tracking.

1. take essential info such as
  - unique id (Product id)
  - date
  - location
  - name

2. nodes in the process → manufacturer



3. question mentioned each product must have an unique product id ↓

This we will use to check if there was same product existing & already shipped or not

This also

indicates that there are more than

1 product we are shipping

→ struct

→ total Products

→ each product must be tracked

↳ using product id

▼ PS\_3\_SUPPLYCHAIN AT 0X86C...E



Balance: 0 ETH

createProduct



productId: 12

productName: comb

date\_of\_manufacturing: 12-09-2023

location: pune



Calldata



Parameters

transact

shipProduct

12



getCurrentStat...

12



0: string: Distributor has the product

total\_no\_Prod...

0: uint256: 2

As you can see after clicking on get current status it shows that 'retailer has the product'. But before clicking on the shipProduct, The product's status was 'Distributor has the product'

▼ PS\_3\_SUPPLYCHAIN AT 0X86C...E

Balance: 0 ETH

createProduct

productId: 121

productName: comb

date\_of\_manufacturing: 12-09-2023

location: pune

Calldata Parameters transact

shipProduct 121 ▼

getCurrentStat... 121 ▼

0: string: Retailer has the product

total\_no\_Prod...

0: uint256: 2

## PS-4 → Digital Art Ownership (similar to NFTs)

1. Artists should be able to register their artwork (but once only!)

↳ we do here

2. Multiple artworks should be there along with multiple artists.

3. Uniquely identify artist ⇒ Can be done using address

↓  
Actual owner

↓  
msg.sender

4. Keep-record ⇒ To maintain record if it is already registered or

not

true

(Already registered)

false

(Not registered yet)

error: cannot use that id again

5. Transfer of Artwork ⇒ from 1 address to another address

⇒ Get Artwork Owner will show name & address of new owner then!!

## ▼ DIGITALARTOWNERSHIP AT 0X4:



Balance: 0 ETH

### registerArtwork

art\_no: 121

artist\_name: Aditya



Calldata



Parameters

transact

### transferArtwork

uint256 art\_no, address new

### getArtworkO...

121

0: address: 0x5B38Da6a701c568545dCfcB03FcB875f56beddC4

1: string: Aditya

Here before the transfer of the artwork the owner was Aditya then after filling the transfer Artwork details and executing the transact button the name of the owner gets changed to Kevin along with address.

Balance: 0 ETH

### registerArtwork

art\_no: 121

artist\_name: Aditya

Calldata

Parameters

transact

### transferArtwork

art\_no: "121"

newOwner: 0xfc3b644f02b7bfb8a912da82b!

new\_owner\_name: Kevin

Calldata

Parameters

transact

getArtworkO...

121

0: address: 0xfc3B644f02b7BfB8A912dA82b52E5E99300Ab5E4

1: string: Kevin