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**Roll no:** 18BCE106

**Subject:** BCT

**Date:** 06-10-2021

### **Practical 8**

Title: Dapp Smart Contract for toll tax

#### **Code:**

```
// Solidity program to
// count number of
// values in a mapping
pragma solidity >=0.4.22;

contract road_tax {

// Defining structure
struct owner {

// Declaring different
// structure elements
string name;

string phone_no;

int total_tax;

int256 total_amount;

}

owner o1;
```

```
function initialize () public {

o1.name="Divya"; o1.phone_no="9876"; o1.total_tax=0;
o1.total_amount=1000; }

//Function adding values to the mapping

function add_tax_user1(int x) public {

if(o1.total_amount>x)

{

    o1.total_amount = o1.total_amount - x;

}

else

o1.total_tax=o1.total_tax + x;

}

// Function to retrieve

// values from the mapping

function get_tax() view public returns (int) {

return o1.total_tax;

}

function get_amount() view public returns (int) {

return o1.total_amount;

    }

}
```

## ABI

```
[
  {
    "inputs": [
      {
        "internalType": "int256",
        "name": "x",
        "type": "int256"
      }
    ],
    "name": "add_tax_user1",
    "outputs": [],
    "stateMutability": "nonpayable",
    "type": "function"
  },
  {
    "inputs": [],
    "name": "get_amount",
    "outputs": [
      {
        "internalType": "int256",
        "name": "",
        "type": "int256"
      }
    ]
  }
]
```

```
    ],  
    "stateMutability": "view",  
    "type": "function"  
  },  
  {  
    "inputs": [],  
    "name": "get_tax",  
    "outputs": [  
      {  
        "internalType": "int256",  
        "name": "",  
        "type": "int256"  
      }  
    ],  
    "stateMutability": "view",  
    "type": "function"  
  },  
  {  
    "inputs": [],  
    "name": "initialize",  
    "outputs": [],  
    "stateMutability": "nonpayable",  
    "type": "function"  
  }  
]
```

CONTRACT ADDRESS

0x1fefB256bea6F4D9fa7472446504E787876b6721

1 of 2



https://oneclickdapp.com

Connect With MetaMask

Select account(s)

New Account

☒ Account 1 (0xab5...d7c7)  
0.999192 ETH

Cancel

Next

Only connect with sites you trust. [Learn more](#)

< Back

2 of 2



https://oneclickdapp.com

Connect to Account 1 (0xab5...d7c7)

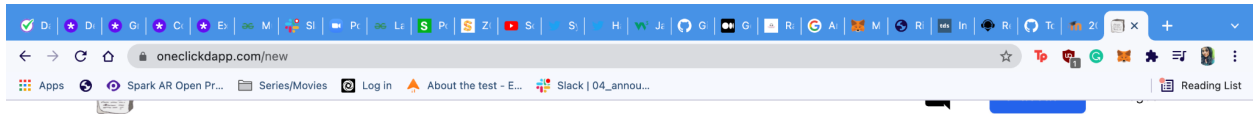
Allow this site to:

☒ View the addresses of your permitted accounts (required)

Cancel

Connect





## Dapps

+ NEW DAPP

**New Dapp**

**Name**

**Description**

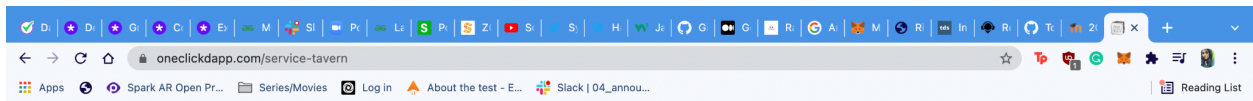
**Abi**  

```
"name": "add_tax_user1",  
"outputs": [],  
"stateMutability": "nonpayable",
```

**Contract address**

**Network name**  
Use "homestead" for ethereum mainnet. Leave blank for a custom network.

**SAVE**



0xab5a9...

Logout



## 18bce106\_prac8

(no network) Created 17 November 2021

Edit

+ New Dapp

Contract	0x1fefB256bea6F4D9fa7472446504E787876b6721
ABI	add_tax_user1, get_amount, get_tax, initialize, ...

Read

Write

get\_amount  
get\_tax

get\_amount

SUBMIT