OBI Module

Oracle Binary Encoding (OBI) is the standard way to serialized and deserialize binary data in the BandChain ecosystem. This module provides the functionality to serialize data. More details

Constructor

- schema
- : Input and output schema.

Example

from pyband import PyObi

obi

PyObi ("{symbol: string,px: u64,in: {a: u8,b: u8}, tb:bool} / string")

encode_input(value)

This function encodes the input value by using input schema.

Parameter

- value
- : Value to be encoded.

Return

- : An encoded value
- . All elicoded value

Example

from pyband . obi import PyObi

obi

```
PyObi ( "{symbol: string,px: u64,in: {a: u8,b: u8}, tb:bool} / string" ) test_input = { "symbol" : "BTC" , "px" : 9000 , "in" : { "a" : 1 , "b" : 2 } , "tb" : False } print ( obi . encode_input ( test_input ) . hex ( ) ) Result 000000034254430000000000002328010200
```

encode_output(value)

This function encodes the output value by using output schema.

Parameter

- value
- : Value to be encoded.

Return

: An encoded value

Example

from pyband . obi import PyObi

obi

```
PyObi ( "{symbol: string,px: u64,in: {a: u8,b: u8}, tb:bool} / string" ) test_output = "test" print ( obi . encode_output ( test_output ) . hex ( ) ) Result 0000000474657374
```

decode input(value)

This function decode the input value by using input schema

Parameter

- value
- : Value to be decoded.

Return

- . .
- · : A decoded value

Example

from pyband . obi import PyObi

obi

```
PyObi \ (\ "\{symbol: string,px: u64,in: \{a: u8,b: u8\},\ tb:bool\}\ /\ string"\ )\ print\ (\ obi\ .\ decode\_input\ (\ bytearray\ .\ fromhex\ (\ "000000034254430000000000002328010200"\ )\ )\ )\ Result
```

```
{"symbol": "BTC", "px": 9000, "in": {"a": 1, "b": 2}, "tb": False}
```

decode_output(value)

This function decode the output value by using output schema

Parameter

- value
- : Value to be decoded.

Return

- •
- · : A decoded value

Example

from pyband . obi import PyObi

obi

 $PyObi\ (\ "\{symbol: string,px: u64,in: \{a: u8,b: u8\},\ tb:bool\}\ /\ string"\)\ print\ (\ obi\ .\ decode_output\ (\ bytearray\ .\ fromhex\ (\ "0000000474657374"\)\)\)\ Result$

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