



Description of the method

Description:	->sum() method returns the sum of all the elements in the container that supports the "+"-operation, e.g. integer.
Available for:	integer, real
Parameters:	-
Return type:	integer, real

Example

Context:	Message
OCL:	self.Transaction.Amount->sum() = 100
Description:	The example sums every transaction amount in the message if the amounts are valid type and compares them to the integer. If the sum is 100, true will be returned.

The XML snippet below would pass this check.

```
<?xml version="1.0" encoding="UTF-8"?>
<Message xmlns="http://www.XMLdation.com"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <Header>
    <Id>a</Id>
    <TimeStamp>2018-05-28T12:17:50</TimeStamp>
    <ControlSum>2</ControlSum>
    <NumberOfTransactions>1</NumberOfTransactions>
  </Header>
  <Transaction>
    <Id>TransactionId1</Id>
    <Amount>50</Amount>
    <Debtor>
      <Name>Debtor1</Name>
    </Debtor>
  </Transaction>
</Message>
```

```

<Creditor>
  <Name>Creditor1</Name>
</Creditor>
</Transaction>
<Transaction>
  <Id>TransactionId2</Id>
  <Amount>50</Amount>
  <Debtor>
    <Name>Debtor2</Name>
  </Debtor>
  <Creditor>
    <Name>Creditor2</Name>
  </Creditor>
</Transaction>
</Message>

```

The other snippet below however would not pass this check. (The sum of transaction amounts is more than 100)

```

<?xml version="1.0" encoding="UTF-8"?>
<Message xmlns="http://www.XMLdation.com"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <Header>
    <Id>a</Id>
    <TimeStamp>2018-05-28T12:17:50</TimeStamp>
    <ControlSum>2</ControlSum>
    <NumberOfTransactions>1</NumberOfTransactions>
  </Header>
  <Transaction>
    <Id>TransactionId1</Id>
    <Amount>100</Amount>
    <Debtor>
      <Name>Debtor1</Name>
    </Debtor>
    <Creditor>
      <Name>Creditor1</Name>
    </Creditor>
  </Transaction>
  <Transaction>
    <Id>TransactionId2</Id>
    <Amount>50</Amount>
    <Debtor>
      <Name>Debtor2</Name>
    </Debtor>
    <Creditor>

```

```
<Name>Creditor2</Name>  
</Creditor>  
</Transaction>  
</Message>
```