

tf.assign_add

```
assign_add(  
    ref,  
    value,  
    use_locking=None,  
    name=None  
)
```

Defined in [tensorflow/python/ops/state_ops.py](#).

See the guide: [Variables > Variable helper functions](#)

Update 'ref' by adding 'value' to it.

This operation outputs "ref" after the update is done. This makes it easier to chain operations that need to use the reset value.

Args:

- **ref**: A mutable **Tensor**. Must be one of the following types: **float32**, **float64**, **int64**, **int32**, **uint8**, **uint16**, **int16**, **int8**, **complex64**, **complex128**, **qint8**, **quint8**, **qint32**, **half**. Should be from a **Variable** node.
- **value**: A **Tensor**. Must have the same type as **ref**. The value to be added to the variable.
- **use_locking**: An optional **bool**. Defaults to **False**. If True, the addition will be protected by a lock; otherwise the behavior is undefined, but may exhibit less contention.
- **name**: A name for the operation (optional).

Returns:

Same as "ref". Returned as a convenience for operations that want to use the new value after the variable has been updated.

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