tf.summary.scalar

```
scalar(
    name,
    tensor,
    collections=None,
    family=None
)
```

Defined in `tensorflow/python/summary/summary.py`.

See the guide: Summary Operations > Generation of Summaries

Outputs a `Summary` protocol buffer containing a single scalar value.

The generated Summary has a Tensor.proto containing the input Tensor.

Args:

- `name`: A name for the generated node. Will also serve as the series name in TensorBoard.
- `tensor`: A real numeric Tensor containing a single value.
- `collections`: Optional list of graph collections keys. The new summary op is added to these collections. Defaults to `[GraphKeys.SUMMARIES]`.
- `family`: Optional; if provided, used as the prefix of the summary tag name, which controls the tab name used for display on Tensorboard.

Returns:

A scalar `Tensor` of type `string`. Which contains a `Summary` protobuf.

Raises:

- `ValueError`: If tensor has the wrong shape or type.

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