tf.linalg.logdet

```
logdet(
    matrix,
    name=None
)
```

Defined in `tensorflow/python/ops/linalg_impl.py`.

Computes log of the determinant of a hermitian positive definite matrix.

```
# Compute the determinant of a matrix while reducing the chance of over- or
underflow:
A = ... # shape 10 x 10
det = tf.exp(tf.logdet(A))  # scalar
```

Args:

- `matrix`: A `Tensor`. Must be `float32`, `float64`, `complex64`, or `complex128` with shape `[..., M, M]`.
- `name`: A name to give this `Op`. Defaults to `logdet`.

Returns:

The natural log of the determinant of `matrix`.

numpy compatibility

Equivalent to numpy.linalg.slogdet, although no sign is returned since only hermitian positive definite matrices are supported.

English