tf.multinomial

```
multinomial(
    logits,
    num_samples,
    seed=None,
    name=None
)
```

Defined in **tensorflow/python/ops/random_ops.py** .

See the guide: Constants, Sequences, and Random Values > Random Tensors

Draws samples from a multinomial distribution.

Example:

```
# samples has shape [1, 5], where each value is either 0 or 1 with equal
# probability.
samples = tf.multinomial(tf.log([[10., 10.]]), 5)
```

Args:

- `logits` : 2-D Tensor with shape `[batch_size, num_classes]` . Each slice `[i, :]` represents the unnormalized log-probabilities for all classes.
- `num_samples` : 0-D. Number of independent samples to draw for each row slice.
- `seed` : A Python integer. Used to create a random seed for the distribution. See `tf.set_random_seed` for behavior.
- `name` : Optional name for the operation.

Returns:

The drawn samples of shape `[batch_size, num_samples]` .

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