tf.assert_non_negative

```
assert_non_negative(
    x,
    data=None,
    summarize=None,
    message=None,
    name=None
)
```

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

See the guide: Asserts and boolean checks

Assert the condition `x >= 0` holds element-wise.

Example of adding a dependency to an operation:

```
with tf.control_dependencies([tf.assert_non_negative(x)]):
  output = tf.reduce_sum(x)
```

Non-negative means, for every element `x[i]` of `x`, we have `x[i] >= 0`. If `x` is empty this is trivially satisfied.

Args:

- `x`: Numeric `Tensor`.
- `data`: The tensors to print out if the condition is False. Defaults to error message and first few entries of `x`.
- `summarize`: Print this many entries of each tensor.
- `message`: A string to prefix to the default message.
- `name`: A name for this operation (optional). Defaults to "assert_non_negative".

Returns:

Op raising `InvalidArgumentError` unless `x` is all non-negative.

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