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| **Basis for Comparison** | **Append()** | **Extend()** |
| **Purpose** | To add a single entry to the end of a list, use the append() function. | To add additional elements or an iterable to the end of a list, use the extend() function. |
| **Input** | accepts only one input element | accepts as input an iterable (such as a list or tuple). |
| **Operation** | The append() function adds the full input to the list as a single item. | extend() adds each item to the list independently after iterating through each one in the input. |
| |  |  | | --- | --- | | **Efficiency** |  | | Since append() only executes one operation, it is typically quicker and more effective than extend(). | When adding elements from numerous iterables or with huge inputs, extend() could take longer. |