**Calculate Total Samples in Input Audio:**

* **Input Duration:** 10 minutes = 600 seconds.
* **Sample Rate:** 8000 Hz.

Total Samples = Input Duration × Sample Rate

Total Samples = 600seconds × 8000Hz = 4,800,000 samples

**Estimate Number of Frames:**

* **Frame Length (--frame\_length)**: 8064 (assuming no overlap).
* **Hop Length (--hop\_length\_frame)**: 8064 (no overlap).

If frames are non-overlapping:

Number of Frames = Total Samples​ / Frame Length = 4,800,000 / 8064 ​≈ 595

For overlapping frames, the hop\_length\_frame would be less than frame\_length, so adjust the --nb\_samples value accordingly.

* **Input Duration:** 10 minutes = 600 seconds.
* **Sample Rate:** 16000 Hz

Total Samples = Input Duration × Sample Rate

Total Samples = 600seconds × 16000Hz = 9,600,000 samples

**Estimate Number of Frames:**

* **Frame Length (--frame\_length)**: 8064 (assuming no overlap).
* **Hop Length (--hop\_length\_frame)**: 8064 (no overlap).

If frames are non-overlapping:

Number of Frames = Total Samples​ / Frame Length = 9,600,000 / 8064 ​≈ 1190

For overlapping frames, the hop\_length\_frame would be less than frame\_length, so adjust the --nb\_samples value accordingly.