This demonstration illustrates resonance in open pipes. To do it, you need scissors and a common plastic drinking straw.

Using your teeth, flatten the end three-quarter inch of the straw. Then, using scissors, trim the "reeds" more or less to a point.

Blow on the reed end to produce a note. (Some musicians actually practice at this.) While blowing, take the scissors and whack off an inch of the end of the straw. The pitch of the tone will rise as you shorten the straw by successive inches.

Note: The reeds can be forced into different modes of vibration by changing the pressure of the breath and the way the straw is held in the mouth, also producing changes in pitch. Harmonica players call this "bending" notes. Try to blow in a consistent way while cutting off the straw so as not to confuse the two principles.