

demo 08

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Question 05

Modify the demo program so the input audio is from the microphone.

Answer:

The code was modified in the following section -

```
stream = p.open(format = pyaudio.paInt16,
                channels = 1,
                rate      = RATE,
                input      = True,
                output     = True )

input_bytes = stream.read(1,exception_on_overflow=False)
...
for n in range(0,samples):
    x0, = struct.unpack('h', input_bytes)
    y0 = b0 * x0 + G * buffer[k]
    buffer[k] = x0
    k = k + 1
    if k >= BUFFER_LEN:
        k = 0
    output_bytes = struct.pack('h', int(clip16(y0)))
    stream.write(output_bytes)
    input_bytes = stream.read(1,exception_on_overflow=False)
```