**Exp-8 Simulation of Audio signal generation using mbed**

**Aim:** Write a cpp program for Audio signal generation on speaker in mbed simulator

**Software used:** mbed Compiler and simulator

**Program**

#include "mbed.h“

PwmOut speaker(p21);

void play\_tone(float frequency, float volume, int interval, int rest)

{

speaker.period(1.0 / frequency);

speaker = volume;

wait(interval);

speaker = 0.0;

wait(rest);}

int main(){

while(1) {

play\_tone(200.0, 0.5, 1, 0);

play\_tone(150.0, 0.5, 1, 0);

play\_tone(125.0, 0.5, 1, 2);

}

}

**Interfacing diagram:**

**Results:**