Problem Time: 15 minutes

Snapshots:

**A screen shot of a computer code

Description automatically generated**

Sound travels through the air as a result of collisions between the molecules in the air so the velocity function here calculates the velocity of sound in the air within some range of temperature because temperature affects the velocity of the molecules, which in turn affects the velocity of sound so this function accepts 2 parameters (start\_temp, end\_temp) and then loop from the start to the end and calculate the sound velocity in each iteration using this formula in the code and print it.

**A screen shot of a computer program

Description automatically generated**

in the main function we will ask the user for the start and the end temperatures and call the velocity functions with these parameters

Test cases:

**A screen shot of a computer

Description automatically generated**

in case the start is 0 and the end is 2

**A screen shot of a computer

Description automatically generated**

in case start is 5 and the end is 10

Algorithm:

Step 1: Read the start and the end temperature from the user

Step 2: Call the velocity function and send it 2 parameters (start\_temp, end\_temp)

Step 3: Inside the velocity function loop through the given range and calculate the velocity for each iteration (each temperature in the range) in 1° increments