Algorithm:

‘Prev’ assigned current time in ultrasonic sensor.

‘cmMsec’ assigned the distance of hand from gesture at current time

For loop variable ‘I’ from 1 to 10.

{

‘Next’ assigned next time in ultrasonic sensor.

‘cmMsec1’ assigned the distance of hand from gesture at next time

if(‘cmMsec’<=’cmMsec1’)

{

‘cmMsec’ = ‘cmMsec1’;

delay time by 7 milliseconds

‘c’=’c’+1; //counter for away from sensor gesture incremented

}

Else

{

‘cmMsec’ = ‘cmMsec1’;

delay time by 7 milliseconds

‘c1’=’c1’+1; //counter for towards sensor gesture incremented

}

}

If(c>=9) //check if similar movement detected for 10 continuous timings.

{

Gesture assigned ‘away from sensor’

Print the gesture

}

If(c1>=9)

{

Gesture assigned ‘towards the sensor’

Print the gesture

}