1. **Write a program to use Ultrasonic sensor with LCD to get output on its screen**

import Rpi.GPIO as GPIO

import time

GPIO.setmode(GPIO.BCM)

GPIO\_TRIGGER=18

GPIO\_ECHO24

GPIO.setup(GPIO\_TRIGGER,GPIO.OUT)

GPIO.setup(GPIO\_-ECHO,GPIO.IN)

Def distance():

GPIO.output(GPIO\_TRIGGER,True)

Time.sleep(0.0001)

GPIO.output(GPIO\_TRIGGER,False)

StartTime=time.time()

StopTime=time.time()

while GPIO.input(GPIO\_ECHO) == 0:

StartTime = time.time()

while GPIO.inut(GPIO\_ECHO) ==1:

StopTime=time.time()

TimeElapsed=StopTime-StartTime

distance=(TimeElapsed \* 34300)/2

Return distance

if\_\_name\_\_ == ‘\_\_main\_\_:

try:

while True:

distance=distance()

print(“Me91asured Distance=%.1f cm”%dist)

time.sleep(1)

except KeyboardInterrupt:

print(“Measur9ement stopped by user”)

GPIO.cleanup()