

ASSIGNMENT 1

CIRCUIT DESIGN HOME AUTOMATION SYSTEM IN TINKERCAD

PROGRAM:

ARDUINO UNO CODE

```
import random
import time
while (1):
    temp= random.randint(0, 100)
    humi= random.randint(0, 100)
    #Assume temperature threshold as 40
    #Assume humidity threshold as 35
    thresht=40
    threshh=35
    if temp>thresht or humi> threshh :
        print("ALERT!!! Detected temperature is:
"+str(temp)+"°C, Detected Humidity is: "+str(humi))
    time.sleep(1)
```