ASSIGNMENT 2

```
import random
import winsound
# generate random temperature and humidity values
temperature = random.uniform(20, 40) # in Celsius
humidity = random.uniform(30, 70) # in percentage
# set threshold values for temperature and humidity
temp_threshold = 30 # in Celsius
humidity threshold = 30 # in percentage
# define frequency and duration for alarm sound
freq = 2500 # in hertz
dur = 1000 # in milliseconds
# check if temperature or humidity exceed threshold values
if temperature > temp_threshold and humidity > humidity_threshold:
  print("ALERT: High temperature and high humidity detected!")
 winsound.Beep(freq, dur)
elif temperature > temp_threshold:
  print("ALERT: High temperature detected!")
 winsound.Beep(freq, dur)
elif humidity > humidity_threshold:
  print("ALERT: High humidity detected!")
 winsound.Beep(freq, dur)
else:
  print("Temperature:", temperature, "C, Humidity:", humidity, "%")
```

