**Assignment -2**

Python Programming

|  |  |
| --- | --- |
| Assignment Date | 24 September 2022 |
| Student Name | HARITHAA G |
| Student Roll Number | 722819104045 |
| Maximum Marks | 2 Marks |

**Question-1:**

Build a python code, Assume u get temperature and humidity values(Generated with random function to a variable) and write a condition to continuously detect alarm in case of high temperature.

|  |  |
| --- | --- |
| Solution:  Import random  def alert(msg):  print(msg)  def read\_humidity\_from\_sensor():  return random.randint(10,100)  def read\_temperature\_from\_sensor():  return random.randint(-100,100)  def start\_tracking():    while True:  temperature = read\_temperature\_from\_sensor()  humidity = read\_humidity\_from\_sensor()  if temperature >= 40:  alert("High Temperature")  elif temperature <= 25 and temperature >= 10:  alert("Low Temperature")  elif temperature <= 10:  alert("Very Low Temperature")  else:  alert("Normal Temperature")  if humidity >= 80:  alert("Very High Humidity")  elif humidity >= 50:  alert("High Humidity")  elif humidity <= 30:  alert("Low Humidity")  else:  alert("Moderate Humidity")    if \_\_name\_\_ == "\_\_main\_\_":  start\_tracking()  OUTPUT: |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |