1. Write and execute a program to interface DHT 11 (Temperature and Humidity) Sensor with Arduino kit.

Q.1 What is Sensor?

Q.2 Explain any one sensor in brief.

Q.3 What are the different applications of IoT

DHTT HUMUDITIY & TEMP CODE IN ARDUINO

CONNECTION:

CODE: 3V TO 3V , OUT PIN TO 2 PIN & GND TO GND

#include <DHT.h>

#define DHTPIN 2

#define DHTTYPE DHT11

DHT dht(DHTPIN, DHTTYPE);

void setup() {

Serial.begin(9600);

dht.begin();

}

void loop() {

delay(2000);

float temperature = dht.readTemperature();

float humidity = dht.readHumidity();

if (isnan(temperature) || isnan(humidity)) {

Serial.println("Failed to read from DHT sensor");

return;

}

Serial.print("Temperature: ");

Serial.print(temperature);

Serial.println(" °C");

Serial.print("Humidity: ");

Serial.print(humidity);

Serial.println(" %");

}