

PROJECT DEVELOPMENT PHASE

Sprint - 1

TEAM ID : PNT2022TMID08447

PROJECT NAME : Smart Farmer - IoT Enabled Smart Farming

Coding :

```
/* DHT-22 sensor with Arduino uno
```

```
Temperature and humidity sensor
```

```
*/
```

```
//Libraries
```

```
#include <DHT.h>;
```

```
//Constants
```

```
#define DHTPIN 7 // what pin we're connected to
```

```
#define DHTTYPE DHT22 // DHT 22 (AM2302)
```

```
DHT dht(DHTPIN, DHTTYPE); ///// Initialize DHT sensor for normal 16mhz Arduino
```

```
//Variables

int chk;

float hum; //Stores humidity value

float temp; //Stores temperature value


void setup() {

    // put your setup code here, to run once:

    Serial.begin(9600);

    dht.begin();

    Serial.print("SmartFarmer-IoT Enabled Smart Farming\n");

}


void loop() {

    // put your main code here, to run repeatedly:

    delay(1000);


    //Read data and store it to variables hum and temp

    hum = dht.readHumidity();

    temp= dht.readTemperature();
```

```
//Print temp and humidity values to serial monitor  
Serial.print("Humidity: ");  
Serial.print(hum);  
Serial.print(" %, Temp: ");  
Serial.print(temp);  
Serial.println(" Celsius");  
delay(1000);  
}
```