```
// code for transmits the data for a temp. and hund sensor.
# include (VirtualWire-h) // for accessing VirtualWire func.
# include (DHT.h) // temp. & humd. Gensor func are under this header file
# define DHTPEN 4 // which pin collects the data from Sensor
# define DHTTYPE DHT22 // specify which DHT sensor is used
 const int led-pin=13;
 const int transmit-pin=12; //pin used for transmission of data
  Struct value
        float tempreature; /* as the sensor gives two types of
        float humidity;
                                 data i.e. tempreature and
                               humidity struct datatype is used */
      3 data;
   DHT dut (DHTPIN, DHTFYPE);
void setupc)
 ક્
   VW_set_tx_pin ctransmit_pin); //s pecity the toans mission Pin
   VW - set - ptt - inverted (true); // configures pt+(pu6h to talk)
   VW- setup (500); //initialises the library
    pin Mode (led-pin, OUTPUT); // led to indicate when the data is to ansmitted -
  ¿ Serial begin (9600);
void Loop ()
   ٤
       digital Write Cled-pin, +IEGH); //indicating the transmission process started
       readSensor();
       vw-send ((uint8-t*)&data, size of (data)); // sending the data with
                                                      size of the data from
       VW-wait-tx(); //wait until the whole
                                                       Sensor.
                            message is transmitted
       digitalWrite (led_pin, LOW); //transmission process ended
        delay (2000); I/delay of 2 seconds
 void readSensor ()
     dht begin (); // Initialisation of the sensor
     delay (1000); //delay of 1 second
     data humidity = dht read tlumidity();
     data. tempreature: dnt. read Tempreature ();
   3
```

Scanned with CamScanner

```
//code for the receiver
# include (VirtualWire.h) // for accessing VirtualWire Junc.
 const int receive-pin=12; //indicate receiver pin number.
Struct value pin=13;
        float tempreature = 0.0;
        float humidity = 0.0;
      f data;
 Void setup()
     VW-set_rx_pin C receive-pin); Ilsets the receive pin
     VW-setup (500); //initialises the library
     VW_rx_Start (); //start the receiver Serial begin (9600); OUTPUT);
  Void Loop()
       uint8_t but [size of (data)];
      uint8_ t butlen = size of (data);
         if (VW-have-message()) //check whether there is a message
                                              packet or not
             digital Write Cled-pin, +116H);
                                              ildata is being received
             VW-get_message (buf, & busten).
             memcpij (&data, &buf, buflen);
             digital write (led-pin, Low); _____
Serial print ("The temp is:");
                                                  I data reception ended.
             Serial println (data tempreature);
             Serial . print (" \n The humidity is: ");
             Serial print In (data humidity);
```



