

Arduino Sensors

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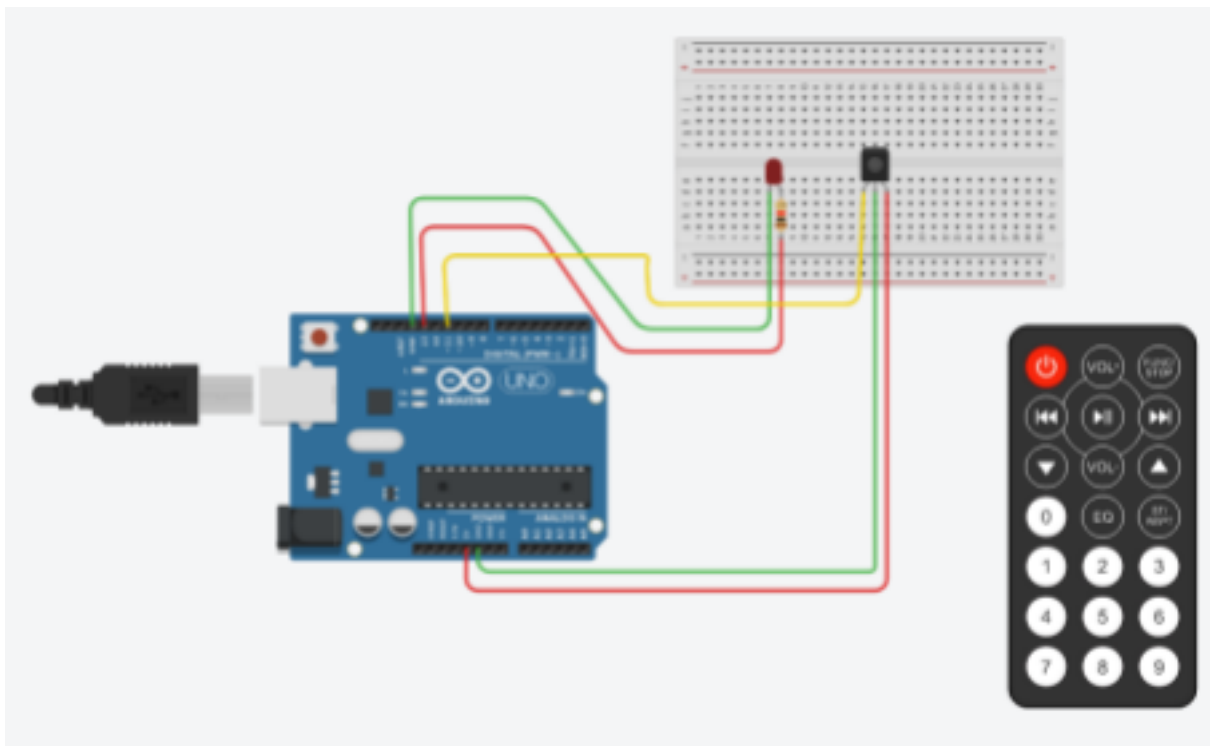
Roll no – 16010221038

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IR Sensor:

Set up -



Code:

```
#include <IRremote.h>

int RECV_PIN=11;

IRrecv irrecv(RECV_PIN);

decode_results results;

void setup()

{
  pinMode(13, OUTPUT);
```

```

Serial.begin(9600);
Serial.println("Enabling
IRin"); irrecv.enableIRIn();
Serial.println("Enabled
IRin"); }

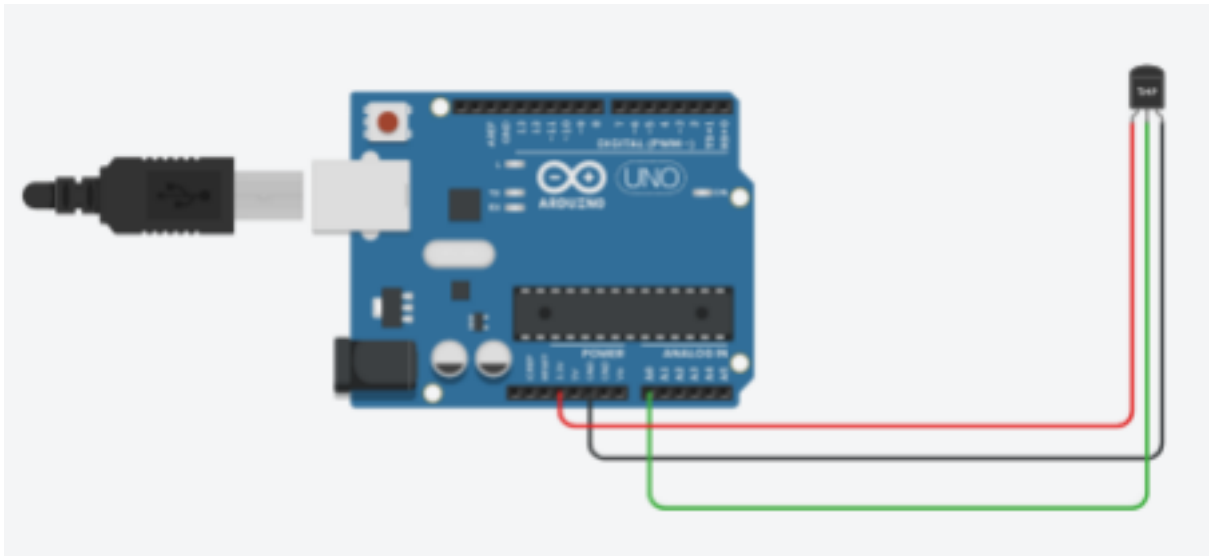
void loop()
{
if (irrecv.decode(&results))
{
Serial.println(results.value
, HEX); irrecv.resume();

if(results.value==0xFD08F7)
{
digitalWrite(13, HIGH);
}
else if (results.value==0xFD8877)
{
digitalWrite(13, LOW);
}
}
delay(20);
}

```

· **Temperature**

sensor: Set up -



Code:

```
int sensorPin=0;

void setup()
{
  Serial.begin(9600);
}

void loop()
{
  int reading=analogRead(sensorPin);
  float voltage=reading*0.5;
  voltage/=1024.0;

  float temperatureC=(voltage-0.5)*100;
  Serial.print(temperatureC);
  Serial.println("Degree C");
  delay(1000);//wait for 1000 milisecond(s)
}
```

Output:



Serial Monitor

-42.53Degree C

-42.53Degree C

-42.53Degree C