LAMPIRAN

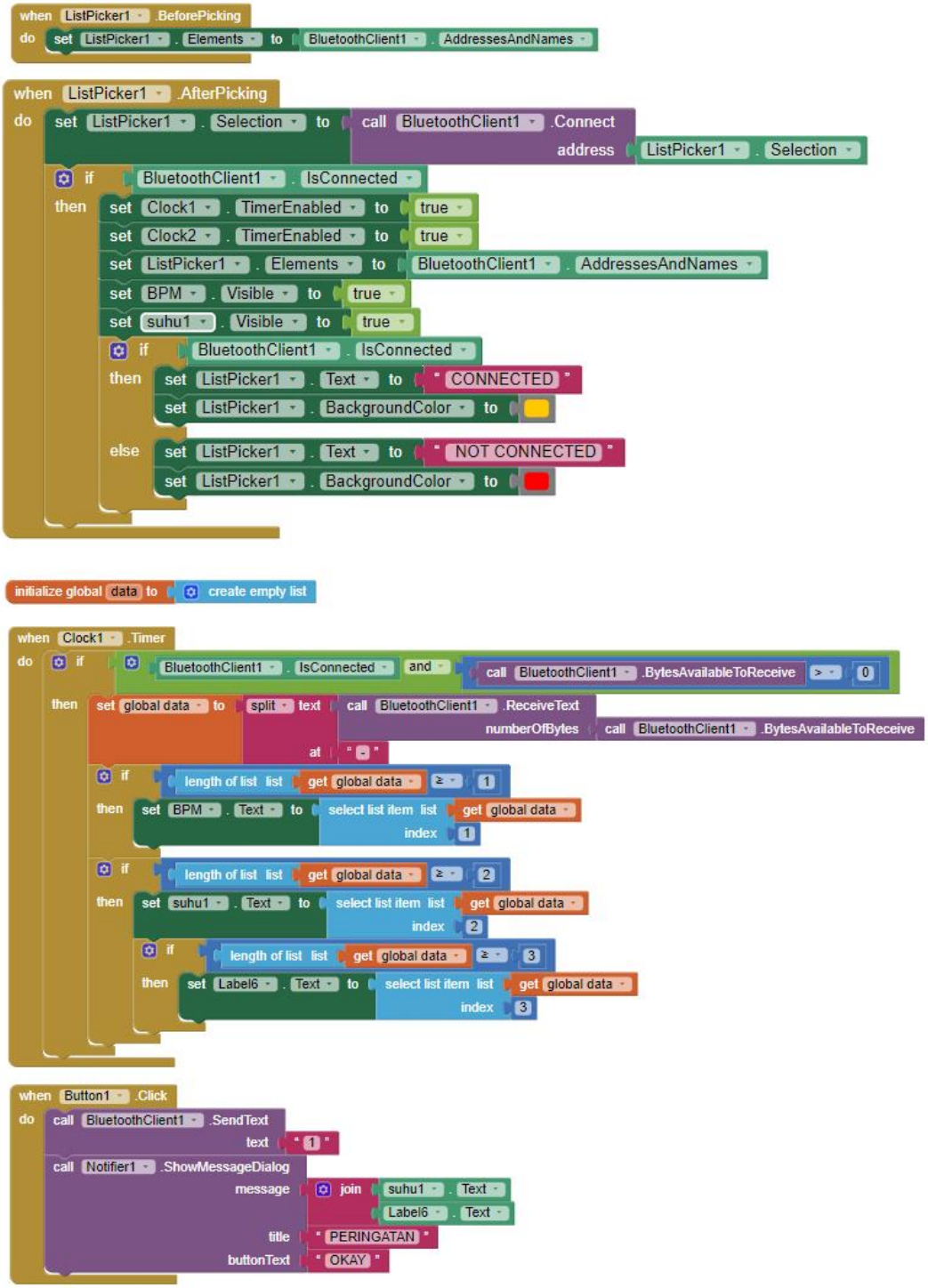
LAMPIRAN 1. Program Arduino

```
#include <OneWire.h>
#include <DallasTemperature.h>
#define ONE_WIRE_BUS 2
#define USE_ARDUINO_INTERRUPTS true
#include <PulseSensorPlayground.h>


OneWire oneWire(ONE_WIRE_BUS);
DallasTemperature sensorSuhu(&oneWire);
const int PulseWire = 0;
const int pinLED = 13;
int Threshold = 550;
int incomingByte = 0;
int datain;

float suhu1;

PulseSensorPlayground pulseSensor;

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

  pulseSensor.analogInput(PulseWire);
  pulseSensor.blinkOnPulse(pinLED);
  pulseSensor.setThreshold(Threshold);

  pulseSensor.begin();
```

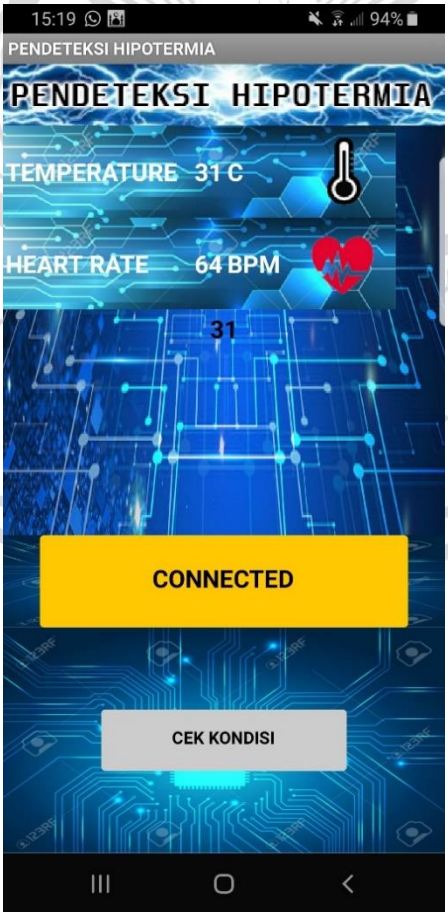
```
  sensorSuhu.begin();

  delay(20);
}

void loop()

{int BPM = pulseSensor.getBeatsPerMinute();
  if (pulseSensor.sawStartOfBeat()) {

  Serial.print((int)BPM);
   Serial.print("-");

  }
  delay(20);

   suhu1 = ambilSuhu();
  Serial.print((int)suhu1);
 Serial.print("-");
  delay(30);


  incomingByte = Serial.read();
 if (incomingByte == '1')
  {
  if (BPM < 60 && suhu1 < 35){
 Serial.print("ANDA MENGALAMI HIPOTERMIA");
  Serial.print("-");
  delay(30);}

  if (BPM > 100 && suhu1 <=35 ){
  Serial.print("DETAK JANTUNG TINGGI");
```

```
  Serial.print("-");
 delay(30);}
   if (BPM >100 && suhu1 > 37){
 Serial.print("BERISTIRAHATLAH");
 Serial.print("-");
  delay(30);}
 if (BPM < 60){
 Serial.print("DETAK JANTUNG LEMAH");
  Serial.print("-");
  delay(30);}
 if (suhu1 < 35 && BPM >= 70){
  Serial.print("SUHU TUBUH RENDAH");
  Serial.print("-");
  delay(30);}
if(suhu1 > 37){
  Serial.print("SUHU TUBUH TINGGI");
Serial.print("-");
  delay(30);}
  }
}

float ambilSuhu()
{
   sensorSuhu.requestTemperatures();
   float suhu = sensorSuhu.getTempCByIndex(0);
   return suhu;
}
```

Program MIT App Inventor




15:21
94%
PENDETEKSI HIPOTERMIA
PENDETEKSI HIPOTERMIA
TEMPERATURE 32 C
HEART RATE 122 BPM
32
PERINGATAN
DETAK JANTUNG TINGGI 154
OKAY
CONNECTED
CEK KONDISI


15:19
94%
PENDETEKSI HIPOTERMIA
PENDETEKSI HIPOTERMIA
TEMPERATURE 31 C
HEART RATE 64 BPM
31
CONNECTED
CEK KONDISI