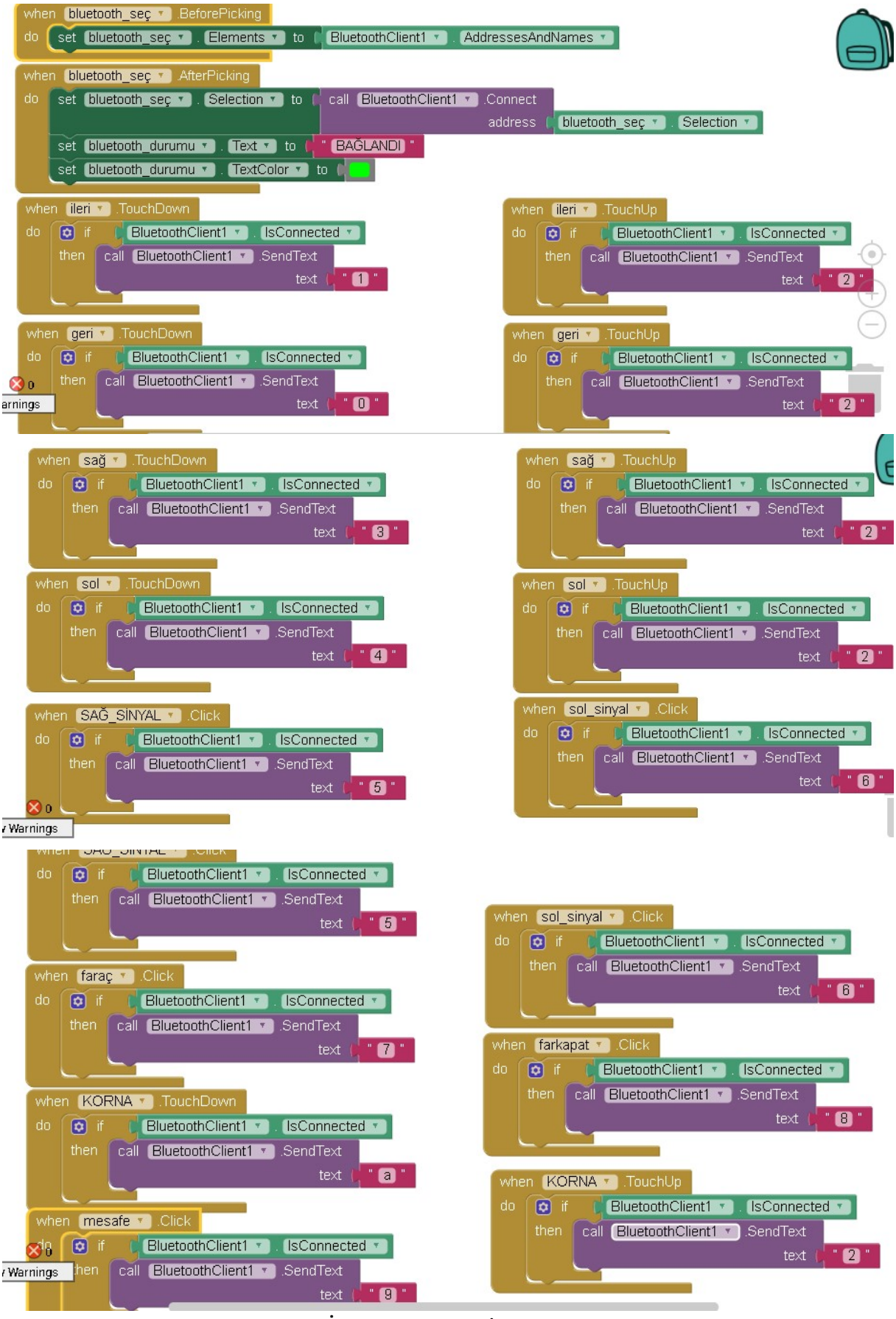
```
const int in1 = 8;
const int in2 = 9;
const int in3 = 10;
const int in4 = 11;
const int sagsinyal =53;
const int solsinyal =52;
const int geriled =51;
const int sagfar =50;
const int solfar =49;
const int durfar= 45;
const int durfar1= 44;
const int ses = 4;
const int trigger =3;
const int echo =2;
int isi=A0;
char w ;
int  zaman;
int mesafe;
float sicaklik;
float analoggerilim;
int S1=48;
int S2=47;
int S3=46;
void setup() {
  pinMode( in1 , OUTPUT);
  pinMode( in2 , OUTPUT);
  pinMode( in3 , OUTPUT);
  pinMode( in4 , OUTPUT);
  pinMode(sagsinyal,OUTPUT);
  pinMode(solsinyal,OUTPUT);
  pinMode(geriled,OUTPUT);
  pinMode(sagfar,OUTPUT);
  pinMode(solfar,OUTPUT);
  pinMode(trigger,OUTPUT);
  pinMode(echo,INPUT);
  pinMode(S1,OUTPUT);
  pinMode(S2,OUTPUT);
  pinMode(S3,OUTPUT);
  pinMode(ses,OUTPUT);
  pinMode(isi,INPUT);
  pinMode(durfar,OUTPUT);
  pinMode(durfar1,OUTPUT);
  Serial.begin(9600);
}
void loop() {
    int  w=Serial.read();
    if (w=='1')
    {
      ileri();
    }
    if (w=='0')
    {
```

```
    geri();
   }

   if(w=='3')
   {
    sagadon();
   }
   if(w=='4')
   {
    soladon();
   }
   if (w=='2')
   {
    dur();
   }
   if(w=='5')
   {
    sagled();
   }
   if(w=='6')
   {
    solled();
   }
   if(w=='7')
   {
    farac();
   }
   if(w=='8')
   {
    farkapat();
   }
   if (w=='9')
   {
    mesafesensor();
   }
   if (w=='a')
   {
     korna();
   }
   if (w=='b')
   {
    termometre();
   }
  }
void ileri()
{
digitalWrite(in1,HIGH);
 // digitalWrite(in2,LOW);
 digitalWrite(in3,HIGH);
 // digitalWrite(in4,LOW);
}
void geri()
```

```
{
  // digitalWrite(in1,LOW);
  digitalWrite(in2,HIGH);
 // digitalWrite(in3,LOW);
  digitalWrite(in4,HIGH);
  digitalWrite(geriled,HIGH);
}
void sagadon()
{
  digitalWrite(in1,HIGH);
 // digitalWrite(in2,LOW);
 // digitalWrite(in3,LOW);
  digitalWrite(in4,HIGH);
}
void soladon()
{
 // digitalWrite(in1,LOW);
  digitalWrite(in2,HIGH);
  digitalWrite(in3,HIGH);
//  digitalWrite(in4,LOW);
}
void dur()
{
  digitalWrite(in1,LOW);
  digitalWrite(in2,LOW);
  digitalWrite(in3,LOW);
  digitalWrite(in4,LOW);
  digitalWrite(geriled,LOW);
  digitalWrite(ses,LOW);
   digitalWrite(durfar,LOW);
   digitalWrite(durfar1,LOW);
}
void sagled()
{
  for (int i=0;i<8;i++)
  {
  digitalWrite (sagsinyal,HIGH) ;
  delay(100);
  digitalWrite (sagsinyal,LOW) ;
  delay(100);
}}
void solled()
{
  for (int i=0;i<8;i++)
  {
  digitalWrite(solsinyal,HIGH) ;
  delay(100);
  digitalWrite(solsinyal,LOW) ;
  delay(100);
}}
void farac()
{
```

```
  digitalWrite(sagfar,HIGH);
  digitalWrite(solfar,HIGH);
  digitalWrite(durfar,HIGH);
  digitalWrite(durfar1,HIGH);
}
void farkapat()
{
  digitalWrite(sagfar,LOW);
  digitalWrite(solfar,LOW);
  digitalWrite(durfar,LOW);
 digitalWrite(durfar1,LOW);
}
void mesafesensor()
{
 digitalWrite(trigger,HIGH);
 delayMicroseconds(1000);
 digitalWrite(trigger,LOW);
 zaman= pulseIn(echo,HIGH);
mesafe = ((zaman/2)/29.1);
Serial.print("uzaklik ");
Serial.print(mesafe);
Serial.println(" cm");
if (mesafe<=10)
{
  for (int i=0;i<5;i++)
  {
  digitalWrite(ses,HIGH);
  delay(27);
  digitalWrite(ses,LOW);
  delay(27);
  }
}
if (mesafe<=20)
{
  for (int i=0;i<5;i++)
  {
  digitalWrite(ses,HIGH);
  delay(75);
  digitalWrite(ses,LOW);
  delay(75);
  }
}
if (mesafe<=25)
{
  for (int i=0;i<5;i++)
  {
  digitalWrite(ses,HIGH);
  delay(100);
  digitalWrite(ses,LOW);
  delay(100);
  }
}
```

```
}
 void termometre()
 {
  analoggerilim = analogRead(A0);
  analoggerilim = (analoggerilim/1023)*5000;
  sicaklik = analoggerilim /10; //
  Serial.print("sıcaklık-->");
  Serial.println(sicaklik);

  if(sicaklik>=15)
  {
    digitalWrite(S1,HIGH);
    delay(75);
    digitalWrite(S1,LOW);
  }
  if(sicaklik>=20)
  {
    digitalWrite(S2,HIGH);
    delay(50);
    digitalWrite(S2,LOW);
  }
  if(sicaklik>=25)
  {
    digitalWrite(S3,HIGH);
    delay(50);
    digitalWrite(S3,LOW);
 }
 }
 void korna()
 {
  digitalWrite(ses,HIGH);
 }
```



App İnventor2 Application