```cpp
#include <IRremote.h>

IRsend IrSender;

void setup()
{
  pinMode(LED_BUILTIN, OUTPUT);

  pinMode(0, OUTPUT);
  pinMode(1, OUTPUT);
  pinMode(2, OUTPUT);

  pinMode(4, OUTPUT);
  pinMode(5, OUTPUT);
  pinMode(6, OUTPUT);
  pinMode(7, OUTPUT);
  pinMode(8, OUTPUT);
  pinMode(9, OUTPUT);
  pinMode(10, OUTPUT);
  pinMode(11, OUTPUT);
  pinMode(12, OUTPUT);
  pinMode(13, OUTPUT);


  pinMode(A0, OUTPUT);
  pinMode(A1, OUTPUT);
  pinMode(A2, OUTPUT);
  pinMode(A3, OUTPUT);
  pinMode(A4, OUTPUT);
```

```cpp
  digitalWrite(0,LOW);
  digitalWrite(1,LOW);
  digitalWrite(2,LOW);
  digitalWrite(4,LOW);
  digitalWrite(5,LOW);
  digitalWrite(6,LOW);
  digitalWrite(7,LOW);
  digitalWrite(8,LOW);
  digitalWrite(9,LOW);
  digitalWrite(10,LOW);
  digitalWrite(11,LOW);
  digitalWrite(12,LOW);
  digitalWrite(13,LOW);
  digitalWrite(A0,LOW);
  digitalWrite(A1,LOW);
  digitalWrite(A2,LOW);
  digitalWrite(A3,LOW);
  digitalWrite(A4,LOW);


  Serial.begin(9600);

}

uint8_t codeLen = 20;
uint32_t ONoff = 65548;
uint32_t num1 = 65537;
uint32_t num2 = 65538;
uint32_t num3 = 65539;
uint32_t num4 = 65540;
uint32_t num5 = 65541;
```

```cpp
uint32_t num6 = 65542;
uint32_t num7 = 65543;
uint32_t num8 = 65544;
uint32_t num9 = 65545;
uint32_t num0 = 65536;
uint32_t volUP = 65552;
uint32_t volDOWN = 65553;
uint32_t mute = 65549;
uint32_t chNext = 65612;
uint32_t chPrevious = 65613;
uint32_t ok = 65628;
uint32_t up = 65624;
uint32_t down = 65625;
uint32_t right = 65627;
uint32_t left = 65626;
uint32_t options = 65600;
uint32_t list = 65740;
uint32_t back = 0x1000A;




int lastButtonState;
int butonStates[13] = {0};
int nState = 0;

void loop()
{

  if(Serial.available())
  {
```

```cpp
        char c = Serial.read();
        Serial.print(c);


//SALON
    if(c == 'a' && butonStates[0] == 0)
    {
        digitalWrite(A0, HIGH);    // turn the LED
on
        butonStates[0] = 1;
    }
    else if(c == 'a' && butonStates[0] == 1)
    {
        digitalWrite(A0, LOW);     // turn the LED
off
        butonStates[0] = 0;
    }

//TUVALET
    else if(c == 'b' && butonStates[1] == 0)
    {
        digitalWrite(A1, HIGH);
        butonStates[1] = 1;
    }
    else if(c == 'b' && butonStates[1] == 1)
    {
        digitalWrite(A1, LOW);
        butonStates[1] = 0;
    }

//YATAK ODASI
```

```
      else if(c == 'c' && butonStates[2] == 0)
      {
        digitalWrite(A2, HIGH);
            butonStates[2] = 1;


      }
      else if(c == 'c' && butonStates[2] == 1)
      {
        digitalWrite(A2, LOW);
        butonStates[2] = 0;


      }


//BANYO
      else if(c == 'd' && butonStates[3] == 0)
      {
        digitalWrite(A3, HIGH);
        butonStates[3] = 1;


      }
      else if(c == 'd' && butonStates[3] == 1)
      {
        digitalWrite(A3, LOW);
        butonStates[3] = 0;


      }


//ÇOCUK ODASI
      else if(c == 'e' && butonStates[4] == 0)
      {
        digitalWrite(4, HIGH);
```

```cpp
      butonStates[4] = 1;


    }
    else if(c == 'e' && butonStates[4] == 1)
    {
      digitalWrite(4, LOW);
      butonStates[4] = 0;


    }


//ANTRE
    else if(c == 'f' && butonStates[5] == 0)
    {
      digitalWrite(5, HIGH);
      butonStates[5] = 1;


    }
    else if(c == 'f' && butonStates[5] == 1)
    {
      digitalWrite(5, LOW);
      butonStates[5] = 0;


    }


//BALKON
    else if(c == 'g' && butonStates[6] == 0)
    {
      digitalWrite(6, HIGH);
      butonStates[6] = 1;


    }
```

```cpp
      else if(c == 'g' && butonStates[6] == 1)
      {
        digitalWrite(6, LOW);
        butonStates[6] = 0;

      }

//KİLER
      else if(c == 'h' && butonStates[7] == 0)
      {
        digitalWrite(7, HIGH);
        butonStates[7] = 1;

      }
      else if(c == 'h' && butonStates[7] == 1)
      {
        digitalWrite(7, LOW);
        butonStates[7] = 0;

      }

//TERAS
      else if(c == 'i' && butonStates[8] == 0)
      {
        digitalWrite(8, HIGH);
        butonStates[8] = 1;
      }
      else if(c == 'i' && butonStates[8] == 1)
      {
        digitalWrite(8, LOW);
        butonStates[8] = 0;
```

```
    }

//MUTFAK
    else if(c == 'j' && butonStates[9] == 0)
    {
      digitalWrite(9, HIGH);
      butonStates[9] = 1;
    }
    else if(c == 'j' && butonStates[9] == 1)
    {
      digitalWrite(9, LOW);
      butonStates[9] = 0;
    }

//FIRIN
    else if(c == 'k' && butonStates[10] == 0)
    {
      digitalWrite(10, HIGH);
      butonStates[10] = 1;
    }
    else if(c == 'k' && butonStates[10] == 1)
    {
      digitalWrite(10, LOW);
      butonStates[10] = 0;
    }

//KAPI OTOMATİĞİ
    else if(c == 'l')
    {
      digitalWrite(11, HIGH);
      delay(52);
```

```
      digitalWrite(11, LOW);
    }


//ZİL
    else if(c == 'm')
    {
      digitalWrite(12, HIGH);
      delay(70);
      digitalWrite(12, LOW);
    }



//KLİMA
//
          ON-OFF
    else if(c == 'n' && butonStates[12] == 0)
    {
      IrSender.sendNEC(0x9000060A, 32);
      butonStates[12] = 1;
    }
    else if(c == 'n' && butonStates[12] == 1)
    {
      IrSender.sendNEC(0x8000040A, 32);
      butonStates[12] = 0;
    }
//
          + DERECE
    else if(c == 'A')
    {
      IrSender.sendNEC(0x71ADD9B5, 32);
```

```cpp
  }
  else if(c == 'B')
//                              - DERECE
  {
    IrSender.sendNEC(0x7DDB5C0, 32);
  }
//
              FAN TOGGLE
  else if(c == 'N' && butonStates[11] == 0)
  {
    IrSender.sendNEC(0x9840060A, 32);
//            SV.1
    butonStates[11] = 1;
  }
  else if(c == 'N' && butonStates[11] == 1)
  {
    IrSender.sendNEC(0x9440060A, 32);
//            SV.2
    butonStates[11] = 2;
  }
  else if(c == 'N' && butonStates[11] == 2)
  {
    IrSender.sendNEC(0x9C40060A, 32);
//            SV.3
    butonStates[11] = 3;
  }
  else if(c == 'N' && butonStates[11] == 3)
  {
    IrSender.sendNEC(0x99C400E0A, 32);
//            SV.4
    butonStates[11] = 4;
```

```
      }
   else if(c == 'N' && butonStates[11] == 4)
   {
      IrSender.sendNEC(0x9040060A, 32);
//              SV.AUTO
      butonStates[11] = 0;
   }
//

           MODE
   else if(c == 'C' )
   {
      IrSender.sendNEC(0x7DDB5C0, 32);
//               COOL


   }
   else if(c == 'D' )
   {
      IrSender.sendNEC(0x5890060A, 32);
//              DRY


   }
   else if(c == 'E' )
   {
      IrSender.sendNEC(0xD090060A, 32);
//              FAN


   }
   else if(c == 'F' )
   {
      IrSender.sendNEC(0x3030060A, 32);
//               HEAT
```

```
    }
    else if(c == 'G' )
    {
      IrSender.sendNEC(0x1090060A, 32);
//              AUTO


    }



//TV
        else if(c == 'o'){
          IrSender.sendRC6(ONoff, codeLen);
          delay(52);}
        else if(c == 'O'){
          IrSender.sendRC6(num1, codeLen);
          delay(52);}
        else if(c == 'p'){
          IrSender.sendRC6(num2, codeLen);
          delay(52);}
        else if(c == 'P'){
          IrSender.sendRC6(num3, codeLen);
          delay(52);}
        else if(c == 'r'){
          IrSender.sendRC6(num4, codeLen);
          delay(52);}
       else if(c == 'R'){
          IrSender.sendRC6(num5, codeLen);
          delay(52);}
        else if(c == 's'){
```

```
    IrSender.sendRC6(num6, codeLen);
    delay(52);}
  else if(c == 'S'){
    IrSender.sendRC6(num7, codeLen);
    delay(52);}
  else if(c == 't'){
    IrSender.sendRC6(num8, codeLen);
    delay(52);}
  else if(c == 'T'){
    IrSender.sendRC6(num9, codeLen);
    delay(52);}
  else if(c == 'u'){
    IrSender.sendRC6(num0, codeLen);
    delay(52);}
  else if(c == 'U'){
    IrSender.sendRC6(ok, codeLen);
    delay(52);}
  else if(c == 'v'){
    IrSender.sendRC6(up, codeLen);
    delay(52);}
  else if(c == 'V'){
    IrSender.sendRC6(down, codeLen);
    delay(52);}
  else if(c == 'y'){
    IrSender.sendRC6(right, codeLen);
    delay(52);}
  else if(c == 'Y'){
    IrSender.sendRC6(left, codeLen);
    delay(52);}
  else if(c == 'z'){
    IrSender.sendRC6(mute, codeLen);
```

```
      delay(52);}
    else if(c == 'Z'){
      IrSender.sendRC6(volUP, codeLen);
      delay(52);}
    else if(c == 'x'){
      IrSender.sendRC6(volDOWN, codeLen);
      delay(52);}
    else if(c == 'X'){
      IrSender.sendRC6(chNext, codeLen);
      delay(52);}
    else if(c == 'w'){
      IrSender.sendRC6(chPrevious, codeLen);
      delay(52);}
    else if(c == 'W'){
      IrSender.sendRC6(options, codeLen);
      delay(52);}
    else if(c == 'q'){
      IrSender.sendRC6(list, codeLen);
      delay(52);}
    else if(c == 'Q'){
      IrSender.sendRC6(back, codeLen);
      delay(52);}

    //Serial.println();
    Serial.print("c: ");
    Serial.println(c);
  }

}
```