```
const int analogInPin = A0;

int sensorValue = 0;

int KEY ;

int NEWKEY ;

int OLDKEY = 0;

int OK = 0 ;

int FLAG = 0;

int coun = 0;

int coun1 = 0;

int look = 0;


int chk[16] = {0,100,260,385,482,530,587,630,660,688,714,735,753,769,784,800};//
set array comparision value


//**********************************************************************
**********************

#include

long irKeyCodes[16] = {

   0x00000000, 0x40BFF807, 0x40BF7887, 0xC03FC03F,       // correspond
to  Keypad button '1', '2', '3','4'

  0xC03F40BF,0x40BF00FF, 0x00000000, 0x00000000,       //  correspond
to  Keypad button  '5', '6', '7','8'

  0x00000000, 0x00000000, 0x00000000, 0x00000000,       //  correspond to  Keypad
button  '9', '10', '11,'12'

  0x80FFC13E, 0x80FFE11E, 0x80FFD12E, 0x80FFF10E        //  correspond
to  Keypad button  '13', '14', '15','16

};

IRsend irsend;

//**********************************************************************
**********************


void setup() {
```

```
 Serial.begin(9600); //Set Baud Rate:
}

 void loop() {

   sensorValue = analogRead(analogInPin);
  delay(15);
  aaa:
    if (FLAG == 0)
     {
 if (chk[0]<=sensorValue && sensorValue
    {
     KEY = 1 ;
    }
  else if (chk[1]<=sensorValue && sensorValue
    {
     KEY = 2 ;
    }
  else if (chk[2]<=sensorValue && sensorValue
    {
     KEY = 3 ;
    }
  else if (chk[3]<=sensorValue && sensorValue
    {
     KEY = 4 ;
    }
  else if (chk[4]<=sensorValue && sensorValue
    {
     KEY = 5 ;
```

```
  }
else if (chk[5]<=sensorValue && sensorValue
  {
   KEY = 6 ;
  }
else if (chk[6]<=sensorValue && sensorValue
  {
   KEY = 7 ;
  }
else if (chk[7]<=sensorValue && sensorValue
  {
   KEY = 8 ;
  }
else if (chk[8]<=sensorValue && sensorValue
  {
  KEY = 9 ;
  }
else if (chk[9]<=sensorValue && sensorValue
  {
   KEY = 10 ;
  }
else if (chk[10]<=sensorValue && sensorValue
  {
   KEY = 11 ;
  }
else if (chk[11]<=sensorValue && sensorValue
  {
   KEY = 12 ;
  }
```

```
else if (chk[12]<=sensorValue && sensorValue
  {
   KEY = 13 ;
  }
else if (chk[13]<=sensorValue && sensorValue
  {
   KEY = 14 ;
  }
else if (chk[14]<=sensorValue && sensorValue
  {
   KEY = 15 ;
  }
else if (chk[15]
  {
   KEY = 16 ;
  }
else if (sensorValue>1000 )                    //
  {
   KEY =  0;
  }
 }


 NEWKEY = KEY;                //save value of  KEY to  NEWKEY
   if ( NEWKEY == OLDKEY)       // if NEWKEY = = OLDKEY then OK + 1
      {

       OK++;
      }
```

```
  else
  {
    OK = 0;                // if not, then   OK=0
  }
  OLDKEY = NEWKEY;
if(OK>=5)                  // if OK =5  print the value
    {
    Serial.print("KEY = ");
    Serial.println(NEWKEY);
     Serial.println(sensorValue);
       Serial.print("look = ");
    Serial.println(look);
  if (NEWKEY !=0)
  {
    switch(NEWKEY){

case 1:
     FLAG =1;
      break;
case 2:
      FLAG =1;
      break;
case 3:
      FLAG =1;
      break;
case 4:
       FLAG =1;
      break;
case 5:
```

```
    FLAG =1;
      break;
case 6:
      FLAG =1;
       break;
case 7:
       FLAG =1;
        break;
case 8:
       FLAG =1;
       break;
case 9:
       FLAG =1;
       break;
case 10:
       FLAG =1;
       break;
case 11:
       FLAG =1;
       break;
 case 12:
       FLAG =1;
       break;
 case 13:
       FLAG =1;
       break;
 case 14:
        FLAG =1;
         break;
```

```
case 15:
        FLAG =1;
        break;

case 16:
      FLAG =1;
      break;
    }
 }

  if(NEWKEY>0)
        {
         coun1++;
        }

     if(coun1>5)
        {
         coun1=0;
         irsend.sendNEC(irKeyCodes[NEWKEY], 32);
         look++;
        }

  if (sensorValue>950)
  {
    coun++;
  }
  if(coun>1)
  {
     FLAG =0;
```

```
            coun = 0;
            goto aaa;
          }
      }
  }
```

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