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//Auto to arxeio perilamvanei olokliro to programma

#include <SoftwareSerial.h> //vivliothiki seiriaki epikoinwnia

// D , C , B , A e3odoi arduino pros to 7447
//metavlites
int Blue1=6; // e3odos gia to Mple xrwma
int Red1=3; //e3odos gia to kokkino xrwma
int Green1=5; //e3odos gia to prasino xrwma
int button=2; // button eidopoihshs
int D11 = 11; // psifiaki e3odos pros 7447 IC...sto 7-segment sto D
int D10 = 10 ; // psifiaki e3odos pros 7447 IC...sto 7-segment sto C
int D09 = 9 ;// psifiaki e3odos pros 7447 IC ... sto 7 segment sto B
int D08 = 8 ;// psifiaki e3odos pros 7447 IC ...sto 7 segment sto A
int room ; // metavliti toy dwmatiou
int flag;

//xarakthrizw eisodous eksodous
void setup ()
{
    pinMode ( D11 , OUTPUT ); // e3odos 11 ----> to pin D toy IC
    pinMode ( D10 , OUTPUT ); // e3odos 10 -----> to pin C toy IC
    pinMode ( D09 , OUTPUT ); // e3odos 09 -----> to pin B toy IC
    pinMode ( D08 , OUTPUT ); // e3odos 08 -----> to pin A toy IC
    pinMode ( Red1 , OUTPUT ); // e3odos 03 Analog -----> to Red pin toy RGB
    led common cathode
    pinMode ( Green1 , OUTPUT );// e3odos 05 Analog -----> to Green pin toy
    RGB led common cathode
    pinMode ( Blue1 , OUTPUT ); // e3odos 06 Analog -----> to Mple pin toy
    RGB led common cathode
    pinMode ( button , INPUT ); // eisodos 02 -----> button eisodoy
    kampinas
    Serial.begin (9600);
}

//kanei kykloys ton kwdika
void loop ()
{
    setSegment( 1,1,1,1); // keno psifio ---> den anavei katholou to led display
    setColor (0,0,0); // svinei to RGB led
    Serial.println ("Give the Room number : " );
    while (Serial.available()==0 ) {}

    room = Serial.parseInt();
    if ( room == 11174 )
    {
        setSegment(0,1,0,0); // D , C , B, A
        setColor(255,0,0); // BLUE , RED , GREEN ----> blue
        Serial.println(" The 11174 Cabin has code: 4 BLUE ");
        while(digitalRead(button) == LOW ){}
    }

    else if ( room == 11175 )
    {
        setSegment(0,1,0,1); // D , C , B, A
        setColor(0,100,20); // BLUE , RED , GREEN ---> yellow
        Serial.println(" The 11175 Cabin has code: 5 YELLOW ");
        while(digitalRead(button) == LOW ){}
    }
    else if ( room == 11176 )
    {
        setSegment(0,1,1,0); // D , C , B, A
        setColor(0,255,0); // BLUE , RED , GREEN ----> red
    }
}

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Serial.println(" The 11176 Cabin has code: 6 RED ");
while(digitalRead(button) == LOW ){}
}
else if ( room == 11177 )
{
  setSegment(0,1,1,1); // D , C , B, A
  setColor(50,100,0); // BLUE , RED , GREEN -----> PURPLE
  Serial.println(" The 11177 Cabin has code: 7 PURPLE ");
  while(digitalRead(button) == LOW ){}
}
else if ( room == 11178 )
{
  setSegment(1,0,0,0); // D , C , B, A
  setColor(0,0,255); // BLUE , RED , GREEN -----> GREEN
  Serial.println(" The 11178 Cabin has code: 8 GREEN ");
  while(digitalRead(button) == LOW ){}
}
else if ( room == 11179 )
{
  setSegment(1,0,0,1); // D , C , B, A
  setColor(255,255,255); // BLUE , RED , GREEN -----> WHITE
  Serial.println(" The 11179 Cabin has code: 9 WHITE ");
  while(digitalRead(button) == LOW ){}
}
else if ( room == 11180 )
{
  setSegment(0,0,0,0); // D , C , B, A
  setColor(0,100,20); // BLUE , RED , GREEN -----> YELLOW
  Serial.println(" The 11180 Cabin has code: 0 YELLOW ");
  while(digitalRead(button) == LOW ){}
}
else if ( room == 11181 )
{
  setSegment(0,0,0,1); // D , C , B, A
  setColor(255,0,0); // BLUE , RED , GREEN -----> BLUE
  Serial.println(" The 11181 Cabin has code: 1 BLUE ");
  while(digitalRead(button) == LOW ){}
}
else if (room == 11182 )
{
  setSegment(0,0,1,0); // D , C , B, A
  setColor(50, 100 ,0); // BLUE , RED , GREEN ----> PURPLE
  Serial.println(" The 11182 Cabin has code: 2 PURPLE ");
  while(digitalRead(button) == LOW ){}
}
else if (room == 11183 )
{
  setSegment(0,0,1,1); // D , C , B, A
  setColor(0, 255 ,0); // BLUE , RED , GREEN ----> RED
  Serial.println(" The 11183 Cabin has code: 3 RED ");
  while(digitalRead(button) == LOW ){}
}
else if (room == 11184 )
{
  setSegment(0,1,0,0); // D , C , B, A
  setColor(255,255,255); // BLUE , RED , GREEN ----> WHITE
  Serial.println(" The 11184 Cabin has code: 4 WHITE ");
  while(digitalRead(button) == LOW ){}
}
else if (room == 11185 )
{
  setSegment(0,1,0,1); // D , C , B, A
  setColor(0,0,255); // BLUE , RED , GREEN ----> GREEN
  Serial.println(" The 11185 Cabin has code: 5 GREEN ");
}

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    while(digitalRead(button) == LOW ){}
}
else if (room == 11186 )
{
    setSegment(0,1,1,0); // D , C , B, A
    setColor(255,0,0);    // BLUE , RED , GREEN ----> BLUE
    Serial.println(" The 11186 Cabin has code: 6 BLUE ");
    while(digitalRead(button) == LOW ){}
}
else if (room == 11187 )
{
    setSegment(0,1,1,1); // D , C , B, A
    setColor(0,100,20);   // BLUE , RED , GREEN ----> YELLOW
    Serial.println(" The 11187 Cabin has code: 7 YELLOW ");
    while(digitalRead(button) == LOW ){}
}
else if (room == 11188)
{
    setSegment(1,0,0,0); // D , C , B, A
    setColor(0,255 , 0);  // BLUE , RED , GREEN ----> RED
    Serial.println(" The 11188 Cabin has code: 8 RED ");
    while(digitalRead(button) == LOW ){}
}
else if (room == 11189)
{
    setSegment(1,0,0,1); // D , C , B, A
    setColor(50 ,100, 0);  // BLUE , RED , GREEN ----> PURPLE
    Serial.println(" The 11189 Cabin has code: 9 PURPLE ");
    while(digitalRead(button) == LOW ){}
}
else if (room == 11190)
{
    setSegment(0,0,0,0); // D , C , B, A
    setColor(0,0,255);    // BLUE , RED , GREEN ----> GREEN
    Serial.println(" The 11190 Cabin has code: 0 GREEN ");
    while(digitalRead(button) == LOW ){}
}
else if (room == 11191)
{
    setSegment(0,0,0,1); // D , C , B, A
    setColor(255,255,255); // BLUE , RED , GREEN ----> WHITE
    Serial.println(" The 11191 Cabin has code: 1 WHITE ");
    while(digitalRead(button) == LOW ){}
}
else if (room == 11192)
{
    setSegment(0,0,1,0); // D , C , B, A
    setColor(0,100,20);   // BLUE , RED , GREEN ----> YELLOW
    Serial.println(" The 11192 Cabin has code: 2 YELLOW ");
    while(digitalRead(button) == LOW ){}
}
else if (room == 11193)
{
    setSegment(0,0,1,1); // D , C , B, A
    setColor(255, 0, 0);   // BLUE , RED , GREEN ----> BLUE
    Serial.println(" The 11193 Cabin has code: 3 BLUE ");
    while(digitalRead(button) == LOW ){}
}
else if (room == 11194)
{
    setSegment(0,1,0,0); // D , C , B, A
    setColor(50 ,100, 0);  // BLUE , RED , GREEN ----> PURPLE
    Serial.println(" The 11194 Cabin has code: 4 PURPLE ");
    while(digitalRead(button) == LOW ){}
}

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}
else if (room == 11195)
{
  setSegment(0,1,0,1); // D , C , B, A
  setColor(0,255, 0); // BLUE , RED , GREEN ----> RED
  Serial.println(" The 11195 Cabin has code: 5 RED ");
  while(digitalRead(button) == LOW ){}
}
else if (room == 11196)
{
  setSegment(0,1,1,0); // D , C , B, A
  setColor(255,255,255); // BLUE , RED , GREEN ----> WHITE
  Serial.println(" The 11196 Cabin has code: 6 WHITE ");
  while(digitalRead(button) == LOW ){}
}
else if (room == 11197)
{
  setSegment(0,1,1,1); // D , C , B, A
  setColor(0,0,255); // BLUE , RED , GREEN ----> GREEN
  Serial.println(" The 11197 Cabin has code: 7 GREEN ");
  while(digitalRead(button) == LOW ){}
}
else if (room == 11198)
{
  setSegment(1,0,0,0); // D , C , B, A
  setColor(255,0,0); // BLUE , RED , GREEN ----> BLUE
  Serial.println(" The 11198 Cabin has code: 8 BLUE");
  while(digitalRead(button) == LOW ){}
}
else if (room == 11199)
{
  setSegment(1,0,0,1); // D , C , B, A
  setColor(0,100,20); // BLUE , RED , GREEN ----> YELLOW
  Serial.println(" The 11199 Cabin has code: 9 YELLOW ");
  while(digitalRead(button) == LOW ){}
}
else if (room == 11200)
{
  setSegment(0,0,0,0); // D , C , B, A
  setColor(0,255,0); // BLUE , RED , GREEN ----> RED
  Serial.println(" The 11200 Cabin has code: 0 RED ");
  while(digitalRead(button) == LOW ){}
}
else if (room == 11201)
{
  setSegment(0,0,0,1); // D , C , B, A
  setColor(50,100,0); // BLUE , RED , GREEN ----> PURPLE
  Serial.println(" The 11201 Cabin has code: 1 PURPLE ");
  while(digitalRead(button) == LOW ){}
}
else if (room == 11202)
{
  setSegment(0,0,1,0); // D , C , B, A
  setColor(0,0,255); // BLUE , RED , GREEN ----> GREEN
  Serial.println(" The 11202 Cabin has code: 2 GREEN ");
  while(digitalRead(button) == LOW ){}
}
else if (room == 11203)
{
  setSegment(0,0,1,1); // D , C , B, A
  setColor(255,255,255); // BLUE , RED , GREEN ----> WHITE
  Serial.println(" The 11203 Cabin has code: 3 WHITE ");
  while(digitalRead(button) == LOW ){}
}

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    else if (room == 11204)
    {
        setSegment(0,1,0,0); // D , C , B, A
        setColor(0 , 100 , 20); // BLUE , RED , GREEN ----> YELLOW
        Serial.println(" The 11204 Cabin has code: 4 YELLOW ");
        while(digitalRead(button) == LOW ){}
    }

    else if (room == 11205)
    {
        setSegment(0,1,0,1); // D , C , B, A
        setColor(255, 0 , 0 ); // BLUE , RED , GREEN ----> BLUE
        Serial.println(" The 11205 Cabin has code: 5 BLUE ");
        while(digitalRead(button) == LOW ){}
    }

    else if (room == 11206)
    {
        setSegment(0,1,1,0); // D , C , B, A
        setColor(50 , 100 , 0 ); // BLUE , RED , GREEN ----> PURPLE
        Serial.println(" The 11206 Cabin has code: 6 PURPLE ");
        while(digitalRead(button) == LOW ){}
    }

    else if (room == 11207)
    {
        setSegment(0,1,1,1); // D , C , B, A
        setColor(0 , 255 , 0 ); // BLUE , RED , GREEN ----> RED
        Serial.println(" The 11207 Cabin has code: 7 RED ");
        while(digitalRead(button) == LOW ){}
    }

    else if (room == 11208)
    {
        setSegment(1,0,0,0); // D , C , B, A
        setColor(255, 255, 255); // BLUE , RED , GREEN ----> WHITE
        Serial.println(" The 11208 Cabin has code: 8 WHITE ");
        while(digitalRead(button) == LOW ){}
    }

    else if (room == 11209)
    {
        setSegment(1,0,0,1); // D , C , B, A
        setColor(0 , 0, 255); // BLUE , RED , GREEN ----> GREEN
        Serial.println(" The 11209 Cabin has code: 9 GREEN ");
        while(digitalRead(button) == LOW ){}
    }

    else if (room == 11210)
    {
        setSegment(0,0,0,0); // D , C , B, A
        setColor(255, 0 , 0 ); // BLUE , RED , GREEN ----> BLUE
        Serial.println(" The 11210 Cabin has code: 0 BLUE ");
        while(digitalRead(button) == LOW ){}
    }

    else if (room == 11211)
    {
        setSegment(0,0,0,1); // D , C , B, A
        setColor(0, 100 , 20 ); // BLUE , RED , GREEN ----> YELLOW
        Serial.println(" The 11211 Cabin has code: 1 YELLOW ");
        while(digitalRead(button) == LOW ){}
    }

    else if (room == 11212)
    {
        setSegment(0,0,1,0); // D , C , B, A
        setColor(0, 255, 0 ); // BLUE , RED , GREEN ----> RED
        Serial.println(" The 11212 Cabin has code: 2 RED ");
        while(digitalRead(button) == LOW ){}
    }

    else if (room == 11213)

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{
  setSegment(0,0,1,1); // D , C , B, A
  setColor(50 ,100, 0 ); // BLUE , RED , GREEN ----> PURPLE
  Serial.println(" The 11213 Cabin has code: 3 PURPLE ");
  while(digitalRead(button) == LOW ){}
}

  else if (room == 11214)
{
  setSegment(0,1,0,0); // D , C , B, A
  setColor(0, 0 , 255); // BLUE , RED , GREEN ----> GREEN
  Serial.println(" The 11214 Cabin has code: 4 GREEN ");
  while(digitalRead(button) == LOW ){}
}

  else if (room == 11215)
{
  setSegment(0,1,0,1); // D , C , B, A
  setColor(255, 255, 255); // BLUE , RED , GREEN ----> WHITE
  Serial.println(" The 11215 Cabin has code: 5 WHITE ");
  while(digitalRead(button) == LOW ){}
}

  else if (room == 11216)
{
  setSegment(0,1,1,0); // D , C , B, A
  setColor(0, 100,20); // BLUE , RED , GREEN ----> YELLOW
  Serial.println(" The 11216 Cabin has code: 6 YELLOW ");
  while(digitalRead(button) == LOW ){}
}

  else if (room == 11217)
{
  setSegment(0,1,1,1); // D , C , B, A
  setColor(255, 0,0); // BLUE , RED , GREEN ----> BLUE
  Serial.println(" The 11217 Cabin has code: 7 BLUE ");
  while(digitalRead(button) == LOW ){}
}

  else if (room == 11218)
{
  setSegment(1,0,0,0); // D , C , B, A
  setColor(50, 100, 0 ); // BLUE , RED , GREEN ----> PURPLE
  Serial.println(" The 11218 Cabin has code: 8 PURPLE ");
  while(digitalRead(button) == LOW ){}
}

  else if (room == 11220)
{
  setSegment(0,0,0,0); // D , C , B, A
  setColor(255, 255, 255); // BLUE , RED , GREEN ----> WHITE
  Serial.println(" The 11220 Cabin has code: 0 WHITE ");
  while(digitalRead(button) == LOW ){}
}

  else if (room == 11222)
{
  setSegment(0,0,1,0); // D , C , B, A
  setColor(255, 0 , 0); // BLUE , RED , GREEN ----> BLUE
  Serial.println(" The 11222 Cabin has code: 2 BLUE ");
  while(digitalRead(button) == LOW ){}
}

  else if (room == 11224)
{
  setSegment(0,1,0,0); // D , C , B, A
  setColor(0, 255, 0); // BLUE , RED , GREEN ----> RED
  Serial.println(F(" The 11224 Cabin has code: 4 RED "));
  while(digitalRead(button) == LOW ){}
}

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else if (room == 11226)
{
  setSegment(0,1,1,0); // D , C , B, A
  setColor(0, 0, 255); // BLUE , RED , GREEN ----> GREEN
  Serial.println(F(" The 11226 Cabin has code: 6 GREEN "));
  while(digitalRead(button) == LOW ){}
}

  else if (room == 11229)
{
  setSegment(1,0,0,1); // D , C , B, A
  setColor(0, 255, 0); // BLUE , RED , GREEN ----> RED
  Serial.println(F(" The 11229 Cabin has code: 9 RED "));
  while(digitalRead(button) == LOW ){}
}

    else if (room == 11230)
{
  setSegment(0,0,0,0); // D , C , B, A
  setColor(50,100, 0); // BLUE , RED , GREEN ----> PURPLE
  Serial.println(F(" The 11230 Cabin has code: 0 PURPLE "));
  while(digitalRead(button) == LOW ){}
}

      else if (room == 11231)
{
  setSegment(0,0,0,1); // D , C , B, A
  setColor(0 ,0 ,255); // BLUE , RED , GREEN ---->GREEN
  Serial.println(F(" The 11231 Cabin has code: 1 GREEN "));
  while(digitalRead(button) == LOW ){}
}

        else if (room == 11232)
{
  setSegment(0,0,1,0); // D , C , B, A
  setColor(255,255,255); // BLUE , RED , GREEN ----> WHITE
  Serial.println(F(" The 11232 Cabin has code: 2 WHITE "));
  while(digitalRead(button) == LOW ){}
}

          else if (room == 11233)
{
  setSegment(0,0,1,1); // D , C , B, A
  setColor(0,100,20); // BLUE , RED , GREEN ----> YELLOW
  Serial.println(F(" The 11233 Cabin has code: 3 YELLOW "));
  while(digitalRead(button) == LOW ){}
}

            else if (room == 11235)
{
  setSegment(0,1,0,1); // D , C , B, A
  setColor(50,100,0); // BLUE , RED , GREEN ----> PURPLE
  Serial.println(F(" The 11235 Cabin has code: 5 PURPLE "));
  while(digitalRead(button) == LOW ){}
}

              else if (room == 11236)
{
  setSegment(0,1,1,0); // D , C , B, A
  setColor(0,255,0); // BLUE , RED , GREEN ----> RED
  Serial.println(F(" The 11235 Cabin has code: 6 RED "));
  while(digitalRead(button) == LOW ){}
}

                else if (room == 11237)
{
  setSegment(0,1,1,1); // D , C , B, A
  setColor(255,255,255); // BLUE , RED , GREEN ----> WHITE
  Serial.println(F(" The 11237 Cabin has code: 7 WHITE "));
  while(digitalRead(button) == LOW ){}
}

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    else if (room == 11239)
    {
        setSegment(1,0,0,1); // D , C , B, A
        setColor(255,0,0);    // BLUE , RED , GREEN ----> BLUE
        Serial.println(F(" The 11237 Cabin has code: 9 BLUE "));
        while(digitalRead(button) == LOW ){}
    }

    else if (room == 11240)
    {
        setSegment(0,0,0,0); // D , C , B, A
        setColor(0,100,20);   // BLUE , RED , GREEN ----> YELLOW
        Serial.println(F(" The 11237 Cabin has code: 0 YELLOW "));
        while(digitalRead(button) == LOW ){}
    }

    else if (room == 11241)
    {
        setSegment(0,0,0,1); // D , C , B, A
        setColor(0,255,0);    // BLUE , RED , GREEN ----> RED
        Serial.println(F(" The 11237 Cabin has code: 1 RED "));
        while(digitalRead(button) == LOW ){}
    }

    else if (room == 11243)
    {
        setSegment(0,0,1,1); // D , C , B, A
        setColor(0,0,255);    // BLUE , RED , GREEN ----> GREEN
        Serial.println(F(" The 11243 Cabin has code: 3 GREEN "));
        while(digitalRead(button) == LOW ){}
    }

    else if (room == 11244)
    {
        setSegment(0,1,0,0); // D , C , B, A
        setColor(255,0,0);    // BLUE , RED , GREEN ----> BLUE
        Serial.println(F(" The 11244 Cabin has code: 4 BLUE "));
        while(digitalRead(button) == LOW ){}
    }

    else if (room == 11245)
    {
        setSegment(0,1,0,1); // D , C , B, A
        setColor(0,100,20);   // BLUE , RED , GREEN ----> YELLOW
        Serial.println(F(" The 11245 Cabin has code: 5 YELLOW "));
        while(digitalRead(button) == LOW ){}
    }

    else if (room == 11247)
    {
        setSegment(0,1,0,1); // D , C , B, A
        setColor(0,100,20);   // BLUE , RED , GREEN ----> PURPLE
        Serial.println(F(" The 11247 Cabin has code: 7 PURPLE "));
        while(digitalRead(button) == LOW ){}
    }

    else if (room == 11249)
    {
        setSegment(1,0,0,1); // D , C , B, A
        setColor(255,255,255); // BLUE , RED , GREEN ----> WHITE
        Serial.println(F(" The 11249 Cabin has code: 9 WHITE "));
        while(digitalRead(button) == LOW ){}
    }

    else if (room == 11250)
    {
        setSegment(1,0,0,1); // D , C , B, A
        setColor(0,0,255);    // BLUE , RED , GREEN ----> GREEN
        Serial.println(F(" The 11250 Cabin has code: 0 GREEN "));
        while(digitalRead(button) == LOW ){}
    }

    else if (room == 11251)

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{
  setSegment(0,0,0,1); // D , C , B, A
  setColor(255,0,0);    // BLUE , RED , GREEN ----> BLUE
  Serial.println(F(" The 11251 Cabin has code: 1 BLUE "));
  while(digitalRead(button) == LOW ){}
}

    else if (room == 11252)
{
  setSegment(0,0,1,0); // D , C , B, A
  setColor(50,100,0);   // BLUE , RED , GREEN ----> PURPLE
  Serial.println(F(" The 11252 Cabin has code: 2 PURPLE "));
  while(digitalRead(button) == LOW ){}
}

    else if (room == 11253)
{
  setSegment(0,0,1,1); // D , C , B, A
  setColor(0,255,0);    // BLUE , RED , GREEN ----> RED
  Serial.println(F(" The 11253 Cabin has code: 3 RED "));
  while(digitalRead(button) == LOW ){}
}

    else if (room == 11254)
{
  setSegment(0,1,0,0); // D , C , B, A
  setColor(0,255,0);    // BLUE , RED , GREEN ----> WHITE
  Serial.println(F(" The 11254 Cabin has code: 4 WHITE "));
  while(digitalRead(button) == LOW ){}
}

    else if (room == 11255)
{
  setSegment(0,1,0,1); // D , C , B, A
  setColor(0,0,255);    // BLUE , RED , GREEN ----> GREEN
  Serial.println(F(" The 11255 Cabin has code: 5 GREEN "));
  while(digitalRead(button) == LOW ){}
}

    else if (room == 11260)
{
  setSegment(0,0,0,0); // D , C , B, A
  setColor(0,255,0);    // BLUE , RED , GREEN ----> RED
  Serial.println(F(" The 11260 Cabin has code: 0 RED "));
  while(digitalRead(button) == LOW ){}
}

    else if (room == 11262)
{
  setSegment(0,0,1,0); // D , C , B, A
  setColor(0,100,20);   // BLUE , RED , GREEN ----> YELLOW
  Serial.println(F(" The 11262 Cabin has code: 2 YELLOW "));
  while(digitalRead(button) == LOW ){}
}

    else if (room == 11264)
{
  setSegment(0,1,0,0); // D , C , B, A
  setColor(50,100,0);   // BLUE , RED , GREEN ----> PURPLE
  Serial.println(F(" The 11264 Cabin has code: 4 PURPLE "));
  while(digitalRead(button) == LOW ){}
}

    else if (room == 11266)
{
  setSegment(0,1,1,0); // D , C , B, A
  setColor(255,0,0);    // BLUE , RED , GREEN ----> BLUE
  Serial.println(F(" The 11266 Cabin has code: 6 BLUE "));
  while(digitalRead(button) == LOW ){}
}

    else if (room == 11268)
{

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setSegment(1,0,0,0); // D , C , B, A
setColor(0,100,20); // BLUE , RED , GREEN ----> YELLOW
Serial.println(F(" The 11268 Cabin has code: 8 YELLOW "));
while(digitalRead(button) == LOW ){}
}

    else if (room == 11270)
{
setSegment(0,0,0,0); // D , C , B, A
setColor(255,0,0); // BLUE , RED , GREEN ----> BLUE
Serial.println(F(" The 11270 Cabin has code: 0 BLUE "));
while(digitalRead(button) == LOW ){}
}

    else if (room == 11272)
{
setSegment(0,0,1,0); // D , C , B, A
setColor(255,0,0); // BLUE , RED , GREEN ----> GREEN
Serial.println(F(" The 11272 Cabin has code: 2 GREEN "));
while(digitalRead(button) == LOW ){}
}

    else if (room == 11273)
{
setSegment(0,0,1,1); // D , C , B, A
setColor(255,0,0); // BLUE , RED , GREEN ----> BLUE
Serial.println(F(" The 11273 Cabin has code: 3 BLUE "));
while(digitalRead(button) == LOW ){}
}

    else if (room == 11274)
{
setSegment(0,1,0,0); // D , C , B, A
setColor(0,100,20); // BLUE , RED , GREEN ----> YELLOW
Serial.println(F(" The 11274 Cabin has code: 4 YELLOW "));
while(digitalRead(button) == LOW ){}
}

    else if (room == 11275)
{
setSegment(0,1,0,1); // D , C , B, A
setColor(0,255,0); // BLUE , RED , GREEN ----> RED
Serial.println(F(" The 11275 Cabin has code: 5 RED "));
while(digitalRead(button) == LOW ){}
}

    else if (room == 11276)
{
setSegment(0,1,1,0); // D , C , B, A
setColor(255,255,255); // BLUE , RED , GREEN ----> WHITE
Serial.println(F(" The 11276 Cabin has code: 6 WHITE "));
while(digitalRead(button) == LOW ){}
}

    else if (room == 11277)
{
setSegment(0,1,1,1); // D , C , B, A
setColor(0,100,20); // BLUE , RED , GREEN ----> YELLOW
Serial.println(F(" The 11277 Cabin has code: 7 YELLOW "));
while(digitalRead(button) == LOW ){}
}

    else if (room == 11278)
{
setSegment(1,0,0,0); // D , C , B, A
setColor(0,0,255); // BLUE , RED , GREEN ----> GREEN
Serial.println(F(" The 11278 Cabin has code: 8 GREEN "));
while(digitalRead(button) == LOW ){}
}

    else if (room == 11280)
{
setSegment(0,0,0,0); // D , C , B, A

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setColor(255,255,255); // BLUE , RED , GREEN ----> WHITE
Serial.println(F(" The 11280 Cabin has code: 0 WHITE "));
while(digitalRead(button) == LOW){}
}

    else if (room == 11282)
{
setSegment(0,0,1,0); // D , C , B, A
setColor(0,255,0); // BLUE , RED , GREEN ----> RED
Serial.println(F(" The 11282 Cabin has code: 2 RED "));
while(digitalRead(button) == LOW){}
}

    else if (room == 11284)
{
setSegment(0,1,0,0); // D , C , B, A
setColor(0,0,255); // BLUE , RED , GREEN ----> GREEN
Serial.println(F(" The 11284 Cabin has code: 4 GREEN "));
while(digitalRead(button) == LOW){}
}

    else if (room == 11286)
{
setSegment(0,1,1,0); // D , C , B, A
setColor(50,100,0); // BLUE , RED , GREEN ----> PURPLE
Serial.println(F(" The 11286 Cabin has code: 6 PURPLE "));
while(digitalRead(button) == LOW){}
}

    else if (room == 11288)
{
setSegment(1,0,0,0); // D , C , B, A
setColor(0,255,0); // BLUE , RED , GREEN ----> RED
Serial.println(F(" The 11288 Cabin has code: 8 RED "));
while(digitalRead(button) == LOW){}
}

    else if (room == 11290)
{
setSegment(0,0,0,0); // D , C , B, A
setColor(50,100,0); // BLUE , RED , GREEN ----> PURPLE
Serial.println(F(" The 11290 Cabin has code: 0 PURPLE "));
while(digitalRead(button) == LOW){}
}

    else if (room == 11292)
{
setSegment(0,0,1,0); // D , C , B, A
setColor(255,0,0); // BLUE , RED , GREEN ----> BLUE
Serial.println(F(" The 11292 Cabin has code: 2 BLUE "));
while(digitalRead(button) == LOW){}
}

    else if (room == 11293)
{
setSegment(0,0,1,1); // D , C , B, A
setColor(255,255,255); // BLUE , RED , GREEN ----> WHITE
Serial.println(F(" The 11293 Cabin has code: 3 WHITE "));
while(digitalRead(button) == LOW){}
}

    else if (room == 11294)
{
setSegment(0,1,0,0); // D , C , B, A
setColor(0,255,0); // BLUE , RED , GREEN ----> RED
Serial.println(F(" The 11294 Cabin has code: 4 RED "));
while(digitalRead(button) == LOW){}
}

    else if (room == 11295)
{
setSegment(0,1,0,1); // D , C , B, A
setColor(255,0,0); // BLUE , RED , GREEN ----> BLUE

```

```

    Serial.println(F(" The 11295 Cabin has code: 5 BLUE "));
    while(digitalRead(button) == LOW){}
}

    else if (room == 11296)
{
    setSegment(0,1,1,0); // D , C , B, A
    setColor(0,100,20); // BLUE , RED , GREEN ----> YELLOW
    Serial.println(F(" The 11296 Cabin has code: 6 YELLOW "));
    while(digitalRead(button) == LOW){}
}

    else if (room == 11297)
{
    setSegment(0,1,1,1); // D , C , B, A
    setColor(0,0,255); // BLUE , RED , GREEN ----> GREEN
    Serial.println(F(" The 11297 Cabin has code: 7 GREEN "));
    while(digitalRead(button) == LOW){}
}

    else if (room == 11298)
{
    setSegment(1,0,0,0); // D , C , B, A
    setColor(255,0,0); // BLUE , RED , GREEN ----> BLUE
    Serial.println(F(" The 11298 Cabin has code: 8 BLUE "));
    while(digitalRead(button) == LOW){}
}

    else if (room == 11299)
{
    setSegment(1,0,0,1); // D , C , B, A
    setColor(50,100,0); // BLUE , RED , GREEN ----> PURPLE
    Serial.println(F(" The 11299 Cabin has code: 9 PURPLE "));
    while(digitalRead(button) == LOW){}
}

    else if (room == 11300)
{
    setSegment(0,0,0,0); // D , C , B, A
    setColor(0,100,20); // BLUE , RED , GREEN ----> YELLOW
    Serial.println(F(" The 11300 Cabin has code: 0 YELLOW "));
    while(digitalRead(button) == LOW){}
}

    else if (room == 11301)
{
    setSegment(0,0,0,1); // D , C , B, A
    setColor(255,255,255); // BLUE , RED , GREEN ----> WHITE
    Serial.println(F(" The 11301 Cabin has code: 1 WHITE "));
    while(digitalRead(button) == LOW){}
}

    else if (room == 11302)
{
    setSegment(0,0,1,0); // D , C , B, A
    setColor(255,255,255); // BLUE , RED , GREEN ----> WHITE
    Serial.println(F(" The 11302 Cabin has code: 2 WHITE "));
    while(digitalRead(button) == LOW){}
}

    else if (room == 11303)
{
    setSegment(0,0,1,1); // D , C , B, A
    setColor(50,100,0); // BLUE , RED , GREEN ----> PURPLE
    Serial.println(F(" The 11303 Cabin has code: 3 PURPLE "));
    while(digitalRead(button) == LOW){}
}

    else if (room == 11304)
{
    setSegment(0,1,0,0); // D , C , B, A
    setColor(255,0,0); // BLUE , RED , GREEN ----> BLUE
    Serial.println(F(" The 11304 Cabin has code: 4 BLUE "));
}

```

```

    while(digitalRead(button) == LOW ){}
}
    else if (room == 11305)
{
setSegment(0,1,0,1); // D , C , B, A
setColor(255,255,255); // BLUE , RED , GREEN ----> WHITE
Serial.println(F(" The 11305 Cabin has code: 5 WHITE "));
while(digitalRead(button) == LOW ){}
}
    else if (room == 11306)
{
setSegment(0,1,1,0); // D , C , B, A
setColor(0,0,255); // BLUE , RED , GREEN ----> GREEN
Serial.println(F(" The 11306 Cabin has code: 6 GREEN "));
while(digitalRead(button) == LOW ){}
}
    else if (room == 11307)
{
setSegment(0,1,1,1); // D , C , B, A
setColor(0,255,0); // BLUE , RED , GREEN ----> RED
Serial.println(F(" The 11307 Cabin has code: 7 RED "));
while(digitalRead(button) == LOW ){}
}
    else if (room == 11308)
{
setSegment(1,0,0,0); // D , C , B, A
setColor(255,255,255); // BLUE , RED , GREEN ----> WHITE
Serial.println(F(" The 11308 Cabin has code: 8 WHITE "));
while(digitalRead(button) == LOW ){}
}
    else if (room == 11309)
{
setSegment(1,0,0,1); // D , C , B, A
setColor(0,100,20); // BLUE , RED , GREEN ----> YELLOW
Serial.println(F(" The 11309 Cabin has code: 9 YELLOW "));
while(digitalRead(button) == LOW ){}
}
    else if (room == 11310)
{
setSegment(0,0,0,0); // D , C , B, A
setColor(0,0,255); // BLUE , RED , GREEN ----> GREEN
Serial.println(F(" The 11310 Cabin has code: 0 GREEN "));
while(digitalRead(button) == LOW ){}
}
    else if (room == 11311)
{
setSegment(0,0,0,1); // D , C , B, A
setColor(50,100,0); // BLUE , RED , GREEN ----> PURPLE
Serial.println(F(" The 11311 Cabin has code: 1 PURPLE "));
while(digitalRead(button) == LOW ){}
}
    else if (room == 11312)
{
setSegment(0,0,1,0); // D , C , B, A
setColor(50,100,0); // BLUE , RED , GREEN ----> PURPLE
Serial.println(F(" The 11312 Cabin has code: 2 PURPLE "));
while(digitalRead(button) == LOW ){}
}
    else if (room == 11313)
{
setSegment(0,0,1,1); // D , C , B, A
setColor(0,100,20); // BLUE , RED , GREEN ----> YELLOW
Serial.println(F(" The 11313 Cabin has code: 3 YELLOW "));
while(digitalRead(button) == LOW ){}
}

```

```

}
    else if (room == 11314)
    {
        setSegment(0,1,0,0); // D , C , B, A
        setColor(255,255,255); // BLUE , RED , GREEN ----> WHITE
        Serial.println(F(" The 11314 Cabin has code: 4 WHITE "));
        while(digitalRead(button) == LOW ){}
    }

    else if (room == 11315)
    {
        setSegment(0,1,0,1); // D , C , B, A
        setColor(0,100,50); // BLUE , RED , GREEN ----> PURPLE
        Serial.println(F(" The 11315 Cabin has code: 5 PURPLE "));
        while(digitalRead(button) == LOW ){}
    }

    else if (room == 11316)
    {
        setSegment(0,1,1,0); // D , C , B, A
        setColor(0,255,0); // BLUE , RED , GREEN ----> RED
        Serial.println(F(" The 11316 Cabin has code: 6 RED "));
        while(digitalRead(button) == LOW ){}
    }

    else if (room == 11317)
    {
        setSegment(0,1,1,1); // D , C , B, A
        setColor(255,0,0); // BLUE , RED , GREEN ----> BLUE
        Serial.println(F(" The 11317 Cabin has code: 7 BLUE "));
        while(digitalRead(button) == LOW ){}
    }

    else if (room == 11318)
    {
        setSegment(1,0,0,0); // D , C , B, A
        setColor(50,100,0); // BLUE , RED , GREEN ----> PURPLE
        Serial.println(F(" The 11318 Cabin has code: 8 PURPLE "));
        while(digitalRead(button) == LOW ){}
    }

    else if (room == 11319)
    {
        setSegment(1,0,0,1); // D , C , B, A
        setColor(0,0,255); // BLUE , RED , GREEN ----> GREEN
        Serial.println(F(" The 11319 Cabin has code: 9 GREEN "));
        while(digitalRead(button) == LOW ){}
    }

    else if (room == 11320)
    {
        setSegment(0,0,0,0); // D , C , B, A
        setColor(0,255,0); // BLUE , RED , GREEN ----> RED
        Serial.println(F(" The 11320 Cabin has code: 0 RED "));
        while(digitalRead(button) == LOW ){}
    }

    else if (room == 11321)
    {
        setSegment(0,0,0,1); // D , C , B, A
        setColor(0,100,20); // BLUE , RED , GREEN ----> YELLOW
        Serial.println(F(" The 11321 Cabin has code: 1 YELLOW "));
        while(digitalRead(button) == LOW ){}
    }

    else if (room == 11322)
    {
        setSegment(0,0,1,0); // D , C , B, A
        setColor(0,100,20); // BLUE , RED , GREEN ----> YELLOW
        Serial.println(F(" The 11321 Cabin has code: 2 YELLOW "));
        while(digitalRead(button) == LOW ){}
    }
}

```

```

        else if (room == 11323)
        {
            setSegment(0,0,1,1); // D , C , B, A
            setColor(0,0,255);    // BLUE , RED , GREEN ----> GREEN
            Serial.println(F(" The 11323 Cabin has code: 3 GREEN "));
            while(digitalRead(button) == LOW ){}
        }

        else if (room == 11324)
        {
            setSegment(0,1,0,0); // D , C , B, A
            setColor(50,100,0);   // BLUE , RED , GREEN ---->PURPLE
            Serial.println(F(" The 11324 Cabin has code: 4 PURPLE "));
            while(digitalRead(button) == LOW ){}
        }

        else if (room == 11325)
        {
            setSegment(0,1,0,1); // D , C , B, A
            setColor(0,100,20);   // BLUE , RED , GREEN ----> YELLOW
            Serial.println(F(" The 11325 Cabin has code: 5 YELLOW "));
            while(digitalRead(button) == LOW ){}
        }

        else if (room == 11326)
        {
            setSegment(0,1,1,0); // D , C , B, A
            setColor(255,0,0);    // BLUE , RED , GREEN ----> BLUE
            Serial.println(F(" The 11326 Cabin has code: 6 BLUE "));
            while(digitalRead(button) == LOW ){}
        }

        else if (room == 11327)
        {
            setSegment(0,1,1,1); // D , C , B, A
            setColor(255,255,255); // BLUE , RED , GREEN ----> WHITE
            Serial.println(F(" The 11327 Cabin has code: 7 WHITE "));
            while(digitalRead(button) == LOW ){}
        }

        else if (room == 11328)
        {
            setSegment(1,0,0,0); // D , C , B, A
            setColor(0,100,20);   // BLUE , RED , GREEN ----> YELLOW
            Serial.println(F(" The 11328 Cabin has code: 8 YELLOW "));
            while(digitalRead(button) == LOW ){}
        }

        else if (room == 11329)
        {
            setSegment(1,0,0,1); // D , C , B, A
            setColor(0,255,0);    // BLUE , RED , GREEN ----> RED
            Serial.println(F(" The 11329 Cabin has code: 9 RED "));
            while(digitalRead(button) == LOW ){}
        }
    }

    void setSegment ( int D , int C , int B , int A) //elegxw to segment vazw 0-1
    {
        digitalWrite ( D11, D);
        digitalWrite (D10 , C);
        digitalWrite (D09 , B);
        digitalWrite (D08 , A );
    }

    void setColor(int PulseBlue1 , int PulseRed1 , int PulseGreen1) //rythmizw
    tin entash sto kathe podaraki
    {
        analogWrite (Blue1 , PulseBlue1); //analogikoi eksodoi
        analogWrite (Red1 , PulseRed1);
    }

```

```
    analogWrite (Green1 , PulseGreen1);  
}
```