//#include <LiquidCrystal.h>

//LiquidCrystal lcd(22,24,26,28,30,32);

#include <SoftwareSerial.h>

SoftwareSerial srl(10,11); // arduino to gps board TX, RX

#include <Wire.h>

#include <LiquidCrystal\_I2C.h>

LiquidCrystal\_I2C lcd(0x3f,20,4);

int led1=31;//red//

int led2=33;//yellow//

int led3=35;//green//

int led4=37;//red//

int led5=39;//yellow//

int led6=41;//green//

int led7=43;//red//

int led8=45;//yellow//

int led9=47;//green//

int led10=49;//red//

int led11=51;//yellow//

int led12=53; //green//

int ir1=15;

int ir2=17;

int ir3=14;

int ir4=16;

int a,b,c,d;

char str[70];

char \*test="$GPRMC";

int temp,i;

int phour;

void setup() {

// put your setup code here, to run once:

lcd.init(); // initialize the lcd

lcd.init();

// Print a message to the LCD.

lcd.backlight();

pinMode(led1,OUTPUT);

pinMode(led2,OUTPUT);

pinMode(led3,OUTPUT);

pinMode(led4,OUTPUT);

pinMode(led5,OUTPUT);

pinMode(led6,OUTPUT);

pinMode(led7,OUTPUT);

pinMode(led8,OUTPUT);

pinMode(led9,OUTPUT);

pinMode(led10,OUTPUT);

pinMode(led11,OUTPUT);

pinMode(led12,OUTPUT);

pinMode(ir1,INPUT);

pinMode(ir2,INPUT);

pinMode(ir3,INPUT);

pinMode(ir4,INPUT);

srl.begin(9600);

Serial.begin(115200);

}

void loop() {

// put your main code here, to run repeatedly:

traffic();

delay(50);

//notraffic();delay(50);

}

void thime()

{

srlEvent();

if (temp)

{

// lcd.clear();

int str\_lenth=i;

int x=0,comma=0;

String UTC\_hour="";

String UTC\_minut="";

String UTC\_second="";

String UTC\_date="";

String UTC\_month="";

String UTC\_year="";

String str1="";

while(x<str\_lenth)

{

if(str[x]==',')

comma++;

if(comma==1)

{

x++;

UTC\_hour+=str[x++];

UTC\_hour+=str[x++];

UTC\_minut+=str[x++];

UTC\_minut+=str[x++];

UTC\_second+=str[x++];

UTC\_second+=str[x];

comma=2;

}

if(comma==10)

{

x++;

UTC\_date+=str[x++];

UTC\_date+=str[x++];

UTC\_month+=str[x++];

UTC\_month+=str[x++];

UTC\_year+=str[x++];

UTC\_year+=str[x];

}

x++;

}

int UTC\_hourDec=UTC\_hour.toInt();

int UTC\_minutDec=UTC\_minut.toInt();

int Second=UTC\_second.toInt();

int Date=UTC\_date.toInt();

int Month=UTC\_month.toInt();

int Year=UTC\_year.toInt();

int Hour=UTC\_hourDec+5;

if(Hour>23)

{

Hour-=24;

Date+=1;

}

int Minut=UTC\_minutDec+29;

if(Minut>59)

Minut-=60;

phour=Hour+1;

// UTC\_ind\_zone\_time

//lcd.clear();

lcd.setCursor(0,0);

lcd.print("Dt:");

lcd.print(Date);

lcd.print("/");

lcd.print(Month);

//lcd.print("/");

//lcd.print("20");

//lcd.print(Year);

lcd.setCursor(9,0);

lcd.print("Time: ");

lcd.print(Hour);

lcd.print(":");

lcd.print(Minut);

//lcd.print(":");

//lcd.print(Second);

Serial.print("Date: ");

Serial.print(Date);

Serial.print("/");

Serial.print(Month);

Serial.print("/");

Serial.print("20");

Serial.println(Year);

Serial.print("Time: ");

Serial.print(Hour);

Serial.print(":");

Serial.print(Minut);

Serial.print(":");

Serial.println(Second);

// delay(100);

temp=0;

// j=0;

i=0;

x=0;

str\_lenth=0;

// k=0;

}

}

void srlEvent()

{

while(1)

{

while (srl.available()) //checking serial data from GPS

{

char inChar = (char)srl.read();

str[i]= inChar; //store data from GPS into str[]

i++;

if (i < 7)

{

if(str[i-1] != test[i-1]) //checking for $GPRMC sentence

{

i=0;

}

}

if(i>65)

{

temp=1;

break;

}

}

if(temp)

break;

}

}

void notraffic(){

digitalWrite(led1,LOW);

digitalWrite(led2,LOW);

digitalWrite(led3,LOW);

digitalWrite(led4,LOW);

digitalWrite(led5,LOW);

digitalWrite(led6,LOW);

digitalWrite(led7,LOW);

digitalWrite(led8,LOW);

digitalWrite(led9,LOW);

digitalWrite(led10,LOW);

digitalWrite(led11,LOW);

digitalWrite(led12,LOW);

delay(500);

digitalWrite(led1,LOW);

digitalWrite(led2,HIGH);

digitalWrite(led3,LOW);

digitalWrite(led4,LOW);

digitalWrite(led5,HIGH);

digitalWrite(led6,LOW);

digitalWrite(led7,LOW);

digitalWrite(led8,HIGH);

digitalWrite(led9,LOW);

digitalWrite(led10,LOW);

digitalWrite(led11,HIGH);

digitalWrite(led12,LOW);

delay(250);

}

void traffic(){

a=digitalRead(ir1);

b=digitalRead(ir2);

c=digitalRead(ir3);

d=digitalRead(ir4);

if(a==1 && b==1 && c==1 && d==1)

{

lcd.clear();

lcd.setCursor(0,1);

lcd.print("moderate traffic");

thime();

digitalWrite(led1,LOW);

digitalWrite(led2,LOW);

digitalWrite(led3,HIGH);

digitalWrite(led4,HIGH);

digitalWrite(led5,LOW);

digitalWrite(led6,LOW);

digitalWrite(led7,HIGH);

digitalWrite(led8,LOW);

digitalWrite(led9,LOW);

digitalWrite(led10,HIGH);

digitalWrite(led11,LOW);

digitalWrite(led12,LOW);

delay(3000);

digitalWrite(led1,LOW);

digitalWrite(led2,HIGH);

digitalWrite(led3,LOW);

digitalWrite(led4,LOW);

digitalWrite(led5,HIGH);

digitalWrite(led6,LOW);

digitalWrite(led7,HIGH);

digitalWrite(led8,LOW);

digitalWrite(led9,LOW);

digitalWrite(led10,HIGH);

digitalWrite(led11,LOW);

digitalWrite(led12,LOW);

delay(1000);

digitalWrite(led1,HIGH);

digitalWrite(led2,LOW);

digitalWrite(led3,LOW);

digitalWrite(led4,LOW);

digitalWrite(led5,LOW);

digitalWrite(led6,HIGH);

digitalWrite(led7,HIGH);

digitalWrite(led8,LOW);

digitalWrite(led9,LOW);

digitalWrite(led10,HIGH);

digitalWrite(led11,LOW);

digitalWrite(led12,LOW);

delay(3000);

digitalWrite(led1,HIGH);

digitalWrite(led2,LOW);

digitalWrite(led3,LOW);

digitalWrite(led4,LOW);

digitalWrite(led5,HIGH);

digitalWrite(led6,LOW);

digitalWrite(led7,LOW);

digitalWrite(led8,HIGH);

digitalWrite(led9,LOW);

digitalWrite(led10,HIGH);

digitalWrite(led11,LOW);

digitalWrite(led12,LOW);

delay(1000);

digitalWrite(led1,HIGH);

digitalWrite(led2,LOW);

digitalWrite(led3,LOW);

digitalWrite(led4,HIGH);

digitalWrite(led5,LOW);

digitalWrite(led6,LOW);

digitalWrite(led7,LOW);

digitalWrite(led8,LOW);

digitalWrite(led9,HIGH);

digitalWrite(led10,HIGH);

digitalWrite(led11,LOW);

digitalWrite(led12,LOW);

delay(3000);

digitalWrite(led1,HIGH);

digitalWrite(led2,LOW);

digitalWrite(led3,LOW);

digitalWrite(led4,HIGH);

digitalWrite(led5,LOW);

digitalWrite(led6,LOW);

digitalWrite(led7,LOW);

digitalWrite(led8,HIGH);

digitalWrite(led9,LOW);

digitalWrite(led10,LOW);

digitalWrite(led11,HIGH);

digitalWrite(led12,LOW);

delay(1000);

digitalWrite(led1,HIGH);

digitalWrite(led2,LOW);

digitalWrite(led3,LOW);

digitalWrite(led4,HIGH);

digitalWrite(led5,LOW);

digitalWrite(led6,LOW);

digitalWrite(led7,HIGH);

digitalWrite(led8,LOW);

digitalWrite(led9,LOW);

digitalWrite(led10,LOW);

digitalWrite(led11,LOW);

digitalWrite(led12,HIGH);

delay(3000);

digitalWrite(led1,LOW);

digitalWrite(led2,HIGH);

digitalWrite(led3,LOW);

digitalWrite(led4,HIGH);

digitalWrite(led5,LOW);

digitalWrite(led6,LOW);

digitalWrite(led7,HIGH);

digitalWrite(led8,LOW);

digitalWrite(led9,LOW);

digitalWrite(led10,LOW);

digitalWrite(led11,HIGH);

digitalWrite(led12,LOW);

delay(1000);

}

else if( a==1 && b==1 && c==1 && d==0)

{

lcd.clear();

lcd.setCursor(0,1);

lcd.print("2wards GNT");

thime();

digitalWrite(led1,LOW);

digitalWrite(led2,LOW);

digitalWrite(led3,HIGH);

digitalWrite(led4,HIGH);

digitalWrite(led5,LOW);

digitalWrite(led6,LOW);

digitalWrite(led7,HIGH);

digitalWrite(led8,LOW);

digitalWrite(led9,LOW);

digitalWrite(led10,HIGH);

digitalWrite(led11,LOW);

digitalWrite(led12,LOW);

delay(6000);

digitalWrite(led1,LOW);

digitalWrite(led2,HIGH);

digitalWrite(led3,LOW);

digitalWrite(led4,LOW);

digitalWrite(led5,HIGH);

digitalWrite(led6,LOW);

digitalWrite(led7,HIGH);

digitalWrite(led8,LOW);

digitalWrite(led9,LOW);

digitalWrite(led10,HIGH);

digitalWrite(led11,LOW);

digitalWrite(led12,LOW);

delay(1000);

digitalWrite(led1,HIGH);

digitalWrite(led2,LOW);

digitalWrite(led3,LOW);

digitalWrite(led4,LOW);

digitalWrite(led5,LOW);

digitalWrite(led6,HIGH);

digitalWrite(led7,HIGH);

digitalWrite(led8,LOW);

digitalWrite(led9,LOW);

digitalWrite(led10,HIGH);

digitalWrite(led11,LOW);

digitalWrite(led12,LOW);

delay(3000);

digitalWrite(led1,HIGH);

digitalWrite(led2,LOW);

digitalWrite(led3,LOW);

digitalWrite(led4,LOW);

digitalWrite(led5,HIGH);

digitalWrite(led6,LOW);

digitalWrite(led7,LOW);

digitalWrite(led8,HIGH);

digitalWrite(led9,LOW);

digitalWrite(led10,HIGH);

digitalWrite(led11,LOW);

digitalWrite(led12,LOW);

delay(1000);

digitalWrite(led1,HIGH);

digitalWrite(led2,LOW);

digitalWrite(led3,LOW);

digitalWrite(led4,HIGH);

digitalWrite(led5,LOW);

digitalWrite(led6,LOW);

digitalWrite(led7,LOW);

digitalWrite(led8,LOW);

digitalWrite(led9,HIGH);

digitalWrite(led10,HIGH);

digitalWrite(led11,LOW);

digitalWrite(led12,LOW);

delay(3000);

digitalWrite(led1,HIGH);

digitalWrite(led2,LOW);

digitalWrite(led3,LOW);

digitalWrite(led4,HIGH);

digitalWrite(led5,LOW);

digitalWrite(led6,LOW);

digitalWrite(led7,LOW);

digitalWrite(led8,HIGH);

digitalWrite(led9,LOW);

digitalWrite(led10,LOW);

digitalWrite(led11,HIGH);

digitalWrite(led12,LOW);

delay(1000);

digitalWrite(led1,HIGH);

digitalWrite(led2,LOW);

digitalWrite(led3,LOW);

digitalWrite(led4,HIGH);

digitalWrite(led5,LOW);

digitalWrite(led6,LOW);

digitalWrite(led7,HIGH);

digitalWrite(led8,LOW);

digitalWrite(led9,LOW);

digitalWrite(led10,LOW);

digitalWrite(led11,LOW);

digitalWrite(led12,HIGH);

delay(3000);

digitalWrite(led1,LOW);

digitalWrite(led2,HIGH);

digitalWrite(led3,LOW);

digitalWrite(led4,HIGH);

digitalWrite(led5,LOW);

digitalWrite(led6,LOW);

digitalWrite(led7,HIGH);

digitalWrite(led8,LOW);

digitalWrite(led9,LOW);

digitalWrite(led10,LOW);

digitalWrite(led11,HIGH);

digitalWrite(led12,LOW);

delay(1000);

}

else if(a==1 && b==1 && c==0 && d==1)

{

lcd.clear();

lcd.setCursor(0,1);

lcd.print("2wards MTM");

thime();

digitalWrite(led1,LOW);

digitalWrite(led2,LOW);

digitalWrite(led3,HIGH);

digitalWrite(led4,HIGH);

digitalWrite(led5,LOW);

digitalWrite(led6,LOW);

digitalWrite(led7,HIGH);

digitalWrite(led8,LOW);

digitalWrite(led9,LOW);

digitalWrite(led10,HIGH);

digitalWrite(led11,LOW);

digitalWrite(led12,LOW);

delay(3000);

digitalWrite(led1,LOW);

digitalWrite(led2,HIGH);

digitalWrite(led3,LOW);

digitalWrite(led4,LOW);

digitalWrite(led5,HIGH);

digitalWrite(led6,LOW);

digitalWrite(led7,HIGH);

digitalWrite(led8,LOW);

digitalWrite(led9,LOW);

digitalWrite(led10,HIGH);

digitalWrite(led11,LOW);

digitalWrite(led12,LOW);

delay(1000);

digitalWrite(led1,HIGH);

digitalWrite(led2,LOW);

digitalWrite(led3,LOW);

digitalWrite(led4,LOW);

digitalWrite(led5,LOW);

digitalWrite(led6,HIGH);

digitalWrite(led7,HIGH);

digitalWrite(led8,LOW);

digitalWrite(led9,LOW);

digitalWrite(led10,HIGH);

digitalWrite(led11,LOW);

digitalWrite(led12,LOW);

delay(6000);

digitalWrite(led1,HIGH);

digitalWrite(led2,LOW);

digitalWrite(led3,LOW);

digitalWrite(led4,LOW);

digitalWrite(led5,HIGH);

digitalWrite(led6,LOW);

digitalWrite(led7,LOW);

digitalWrite(led8,HIGH);

digitalWrite(led9,LOW);

digitalWrite(led10,HIGH);

digitalWrite(led11,LOW);

digitalWrite(led12,LOW);

delay(1000);

digitalWrite(led1,HIGH);

digitalWrite(led2,LOW);

digitalWrite(led3,LOW);

digitalWrite(led4,HIGH);

digitalWrite(led5,LOW);

digitalWrite(led6,LOW);

digitalWrite(led7,LOW);

digitalWrite(led8,LOW);

digitalWrite(led9,HIGH);

digitalWrite(led10,HIGH);

digitalWrite(led11,LOW);

digitalWrite(led12,LOW);

delay(3000);

digitalWrite(led1,HIGH);

digitalWrite(led2,LOW);

digitalWrite(led3,LOW);

digitalWrite(led4,HIGH);

digitalWrite(led5,LOW);

digitalWrite(led6,LOW);

digitalWrite(led7,LOW);

digitalWrite(led8,HIGH);

digitalWrite(led9,LOW);

digitalWrite(led10,LOW);

digitalWrite(led11,HIGH);

digitalWrite(led12,LOW);

delay(1000);

digitalWrite(led1,HIGH);

digitalWrite(led2,LOW);

digitalWrite(led3,LOW);

digitalWrite(led4,HIGH);

digitalWrite(led5,LOW);

digitalWrite(led6,LOW);

digitalWrite(led7,HIGH);

digitalWrite(led8,LOW);

digitalWrite(led9,LOW);

digitalWrite(led10,LOW);

digitalWrite(led11,LOW);

digitalWrite(led12,HIGH);

delay(3000);

digitalWrite(led1,LOW);

digitalWrite(led2,HIGH);

digitalWrite(led3,LOW);

digitalWrite(led4,HIGH);

digitalWrite(led5,LOW);

digitalWrite(led6,LOW);

digitalWrite(led7,HIGH);

digitalWrite(led8,LOW);

digitalWrite(led9,LOW);

digitalWrite(led10,LOW);

digitalWrite(led11,HIGH);

digitalWrite(led12,LOW);

delay(1000);

}

else if(a==1 && b==1 && c==0 && d==0)

{

lcd.clear();

lcd.setCursor(0,1);

lcd.print("2wards MTM");

lcd.setCursor(0,2);

lcd.print("2wards GNT");

thime();

digitalWrite(led1,LOW);

digitalWrite(led2,LOW);

digitalWrite(led3,HIGH);

digitalWrite(led4,HIGH);

digitalWrite(led5,LOW);

digitalWrite(led6,LOW);

digitalWrite(led7,HIGH);

digitalWrite(led8,LOW);

digitalWrite(led9,LOW);

digitalWrite(led10,HIGH);

digitalWrite(led11,LOW);

digitalWrite(led12,LOW);

delay(6000);

digitalWrite(led1,LOW);

digitalWrite(led2,HIGH);

digitalWrite(led3,LOW);

digitalWrite(led4,LOW);

digitalWrite(led5,HIGH);

digitalWrite(led6,LOW);

digitalWrite(led7,HIGH);

digitalWrite(led8,LOW);

digitalWrite(led9,LOW);

digitalWrite(led10,HIGH);

digitalWrite(led11,LOW);

digitalWrite(led12,LOW);

delay(1000);

digitalWrite(led1,HIGH);

digitalWrite(led2,LOW);

digitalWrite(led3,LOW);

digitalWrite(led4,LOW);

digitalWrite(led5,LOW);

digitalWrite(led6,HIGH);

digitalWrite(led7,HIGH);

digitalWrite(led8,LOW);

digitalWrite(led9,LOW);

digitalWrite(led10,HIGH);

digitalWrite(led11,LOW);

digitalWrite(led12,LOW);

delay(6000);

digitalWrite(led1,HIGH);

digitalWrite(led2,LOW);

digitalWrite(led3,LOW);

digitalWrite(led4,LOW);

digitalWrite(led5,HIGH);

digitalWrite(led6,LOW);

digitalWrite(led7,LOW);

digitalWrite(led8,HIGH);

digitalWrite(led9,LOW);

digitalWrite(led10,HIGH);

digitalWrite(led11,LOW);

digitalWrite(led12,LOW);

delay(1000);

digitalWrite(led1,HIGH);

digitalWrite(led2,LOW);

digitalWrite(led3,LOW);

digitalWrite(led4,HIGH);

digitalWrite(led5,LOW);

digitalWrite(led6,LOW);

digitalWrite(led7,LOW);

digitalWrite(led8,LOW);

digitalWrite(led9,HIGH);

digitalWrite(led10,HIGH);

digitalWrite(led11,LOW);

digitalWrite(led12,LOW);

delay(3000);

digitalWrite(led1,HIGH);

digitalWrite(led2,LOW);

digitalWrite(led3,LOW);

digitalWrite(led4,HIGH);

digitalWrite(led5,LOW);

digitalWrite(led6,LOW);

digitalWrite(led7,LOW);

digitalWrite(led8,HIGH);

digitalWrite(led9,LOW);

digitalWrite(led10,LOW);

digitalWrite(led11,HIGH);

digitalWrite(led12,LOW);

delay(1000);

digitalWrite(led1,HIGH);

digitalWrite(led2,LOW);

digitalWrite(led3,LOW);

digitalWrite(led4,HIGH);

digitalWrite(led5,LOW);

digitalWrite(led6,LOW);

digitalWrite(led7,HIGH);

digitalWrite(led8,LOW);

digitalWrite(led9,LOW);

digitalWrite(led10,LOW);

digitalWrite(led11,LOW);

digitalWrite(led12,HIGH);

delay(3000);

digitalWrite(led1,LOW);

digitalWrite(led2,HIGH);

digitalWrite(led3,LOW);

digitalWrite(led4,HIGH);

digitalWrite(led5,LOW);

digitalWrite(led6,LOW);

digitalWrite(led7,HIGH);

digitalWrite(led8,LOW);

digitalWrite(led9,LOW);

digitalWrite(led10,LOW);

digitalWrite(led11,HIGH);

digitalWrite(led12,LOW);

delay(1000);

}

else if(a==1 && b==0 && c==1 && d==1)

{

lcd.clear();

lcd.setCursor(0,1);

lcd.print("2wards ELR");

thime();

digitalWrite(led1,LOW);

digitalWrite(led2,LOW);

digitalWrite(led3,HIGH);

digitalWrite(led4,HIGH);

digitalWrite(led5,LOW);

digitalWrite(led6,LOW);

digitalWrite(led7,HIGH);

digitalWrite(led8,LOW);

digitalWrite(led9,LOW);

digitalWrite(led10,HIGH);

digitalWrite(led11,LOW);

digitalWrite(led12,LOW);

delay(3000);

digitalWrite(led1,LOW);

digitalWrite(led2,HIGH);

digitalWrite(led3,LOW);

digitalWrite(led4,LOW);

digitalWrite(led5,HIGH);

digitalWrite(led6,LOW);

digitalWrite(led7,HIGH);

digitalWrite(led8,LOW);

digitalWrite(led9,LOW);

digitalWrite(led10,HIGH);

digitalWrite(led11,LOW);

digitalWrite(led12,LOW);

delay(1000);

digitalWrite(led1,HIGH);

digitalWrite(led2,LOW);

digitalWrite(led3,LOW);

digitalWrite(led4,LOW);

digitalWrite(led5,LOW);

digitalWrite(led6,HIGH);

digitalWrite(led7,HIGH);

digitalWrite(led8,LOW);

digitalWrite(led9,LOW);

digitalWrite(led10,HIGH);

digitalWrite(led11,LOW);

digitalWrite(led12,LOW);

delay(3000);

digitalWrite(led1,HIGH);

digitalWrite(led2,LOW);

digitalWrite(led3,LOW);

digitalWrite(led4,LOW);

digitalWrite(led5,HIGH);

digitalWrite(led6,LOW);

digitalWrite(led7,LOW);

digitalWrite(led8,HIGH);

digitalWrite(led9,LOW);

digitalWrite(led10,HIGH);

digitalWrite(led11,LOW);

digitalWrite(led12,LOW);

delay(1000);

digitalWrite(led1,HIGH);

digitalWrite(led2,LOW);

digitalWrite(led3,LOW);

digitalWrite(led4,HIGH);

digitalWrite(led5,LOW);

digitalWrite(led6,LOW);

digitalWrite(led7,LOW);

digitalWrite(led8,LOW);

digitalWrite(led9,HIGH);

digitalWrite(led10,HIGH);

digitalWrite(led11,LOW);

digitalWrite(led12,LOW);

delay(6000);

digitalWrite(led1,HIGH);

digitalWrite(led2,LOW);

digitalWrite(led3,LOW);

digitalWrite(led4,HIGH);

digitalWrite(led5,LOW);

digitalWrite(led6,LOW);

digitalWrite(led7,LOW);

digitalWrite(led8,HIGH);

digitalWrite(led9,LOW);

digitalWrite(led10,LOW);

digitalWrite(led11,HIGH);

digitalWrite(led12,LOW);

delay(1000);

digitalWrite(led1,HIGH);

digitalWrite(led2,LOW);

digitalWrite(led3,LOW);

digitalWrite(led4,HIGH);

digitalWrite(led5,LOW);

digitalWrite(led6,LOW);

digitalWrite(led7,HIGH);

digitalWrite(led8,LOW);

digitalWrite(led9,LOW);

digitalWrite(led10,LOW);

digitalWrite(led11,LOW);

digitalWrite(led12,HIGH);

delay(3000);

digitalWrite(led1,LOW);

digitalWrite(led2,HIGH);

digitalWrite(led3,LOW);

digitalWrite(led4,HIGH);

digitalWrite(led5,LOW);

digitalWrite(led6,LOW);

digitalWrite(led7,HIGH);

digitalWrite(led8,LOW);

digitalWrite(led9,LOW);

digitalWrite(led10,LOW);

digitalWrite(led11,HIGH);

digitalWrite(led12,LOW);

delay(1000);

}

else if(a==1 && b==0 && c==1 && d==0)

{

lcd.clear();

lcd.setCursor(0,1);

lcd.print("2wards ELR");

lcd.setCursor(0,2);

lcd.print("2wards GNT");

thime();

digitalWrite(led1,LOW);

digitalWrite(led2,LOW);

digitalWrite(led3,HIGH);

digitalWrite(led4,HIGH);

digitalWrite(led5,LOW);

digitalWrite(led6,LOW);

digitalWrite(led7,HIGH);

digitalWrite(led8,LOW);

digitalWrite(led9,LOW);

digitalWrite(led10,HIGH);

digitalWrite(led11,LOW);

digitalWrite(led12,LOW);

delay(6000);

digitalWrite(led1,LOW);

digitalWrite(led2,HIGH);

digitalWrite(led3,LOW);

digitalWrite(led4,LOW);

digitalWrite(led5,HIGH);

digitalWrite(led6,LOW);

digitalWrite(led7,HIGH);

digitalWrite(led8,LOW);

digitalWrite(led9,LOW);

digitalWrite(led10,HIGH);

digitalWrite(led11,LOW);

digitalWrite(led12,LOW);

delay(1000);

digitalWrite(led1,HIGH);

digitalWrite(led2,LOW);

digitalWrite(led3,LOW);

digitalWrite(led4,LOW);

digitalWrite(led5,LOW);

digitalWrite(led6,HIGH);

digitalWrite(led7,HIGH);

digitalWrite(led8,LOW);

digitalWrite(led9,LOW);

digitalWrite(led10,HIGH);

digitalWrite(led11,LOW);

digitalWrite(led12,LOW);

delay(3000);

digitalWrite(led1,HIGH);

digitalWrite(led2,LOW);

digitalWrite(led3,LOW);

digitalWrite(led4,LOW);

digitalWrite(led5,HIGH);

digitalWrite(led6,LOW);

digitalWrite(led7,LOW);

digitalWrite(led8,HIGH);

digitalWrite(led9,LOW);

digitalWrite(led10,HIGH);

digitalWrite(led11,LOW);

digitalWrite(led12,LOW);

delay(1000);

digitalWrite(led1,HIGH);

digitalWrite(led2,LOW);

digitalWrite(led3,LOW);

digitalWrite(led4,HIGH);

digitalWrite(led5,LOW);

digitalWrite(led6,LOW);

digitalWrite(led7,LOW);

digitalWrite(led8,LOW);

digitalWrite(led9,HIGH);

digitalWrite(led10,HIGH);

digitalWrite(led11,LOW);

digitalWrite(led12,LOW);

delay(6000);

digitalWrite(led1,HIGH);

digitalWrite(led2,LOW);

digitalWrite(led3,LOW);

digitalWrite(led4,HIGH);

digitalWrite(led5,LOW);

digitalWrite(led6,LOW);

digitalWrite(led7,LOW);

digitalWrite(led8,HIGH);

digitalWrite(led9,LOW);

digitalWrite(led10,LOW);

digitalWrite(led11,HIGH);

digitalWrite(led12,LOW);

delay(1000);

digitalWrite(led1,HIGH);

digitalWrite(led2,LOW);

digitalWrite(led3,LOW);

digitalWrite(led4,HIGH);

digitalWrite(led5,LOW);

digitalWrite(led6,LOW);

digitalWrite(led7,HIGH);

digitalWrite(led8,LOW);

digitalWrite(led9,LOW);

digitalWrite(led10,LOW);

digitalWrite(led11,LOW);

digitalWrite(led12,HIGH);

delay(3000);

digitalWrite(led1,LOW);

digitalWrite(led2,HIGH);

digitalWrite(led3,LOW);

digitalWrite(led4,HIGH);

digitalWrite(led5,LOW);

digitalWrite(led6,LOW);

digitalWrite(led7,HIGH);

digitalWrite(led8,LOW);

digitalWrite(led9,LOW);

digitalWrite(led10,LOW);

digitalWrite(led11,HIGH);

digitalWrite(led12,LOW);

delay(1000);

}

else if(a==1 && b==0 && c==0 && d==1)

{

lcd.clear();

lcd.setCursor(0,1);

lcd.print("2wards ELR");

lcd.setCursor(0,2);

lcd.print("2wards MTM");

thime();

digitalWrite(led1,LOW);

digitalWrite(led2,LOW);

digitalWrite(led3,HIGH);

digitalWrite(led4,HIGH);

digitalWrite(led5,LOW);

digitalWrite(led6,LOW);

digitalWrite(led7,HIGH);

digitalWrite(led8,LOW);

digitalWrite(led9,LOW);

digitalWrite(led10,HIGH);

digitalWrite(led11,LOW);

digitalWrite(led12,LOW);

delay(3000);

digitalWrite(led1,LOW);

digitalWrite(led2,HIGH);

digitalWrite(led3,LOW);

digitalWrite(led4,LOW);

digitalWrite(led5,HIGH);

digitalWrite(led6,LOW);

digitalWrite(led7,HIGH);

digitalWrite(led8,LOW);

digitalWrite(led9,LOW);

digitalWrite(led10,HIGH);

digitalWrite(led11,LOW);

digitalWrite(led12,LOW);

delay(1000);

digitalWrite(led1,HIGH);

digitalWrite(led2,LOW);

digitalWrite(led3,LOW);

digitalWrite(led4,LOW);

digitalWrite(led5,LOW);

digitalWrite(led6,HIGH);

digitalWrite(led7,HIGH);

digitalWrite(led8,LOW);

digitalWrite(led9,LOW);

digitalWrite(led10,HIGH);

digitalWrite(led11,LOW);

digitalWrite(led12,LOW);

delay(6000);

digitalWrite(led1,HIGH);

digitalWrite(led2,LOW);

digitalWrite(led3,LOW);

digitalWrite(led4,LOW);

digitalWrite(led5,HIGH);

digitalWrite(led6,LOW);

digitalWrite(led7,LOW);

digitalWrite(led8,HIGH);

digitalWrite(led9,LOW);

digitalWrite(led10,HIGH);

digitalWrite(led11,LOW);

digitalWrite(led12,LOW);

delay(1000);

digitalWrite(led1,HIGH);

digitalWrite(led2,LOW);

digitalWrite(led3,LOW);

digitalWrite(led4,HIGH);

digitalWrite(led5,LOW);

digitalWrite(led6,LOW);

digitalWrite(led7,LOW);

digitalWrite(led8,LOW);

digitalWrite(led9,HIGH);

digitalWrite(led10,HIGH);

digitalWrite(led11,LOW);

digitalWrite(led12,LOW);

delay(6000);

digitalWrite(led1,HIGH);

digitalWrite(led2,LOW);

digitalWrite(led3,LOW);

digitalWrite(led4,HIGH);

digitalWrite(led5,LOW);

digitalWrite(led6,LOW);

digitalWrite(led7,LOW);

digitalWrite(led8,HIGH);

digitalWrite(led9,LOW);

digitalWrite(led10,LOW);

digitalWrite(led11,HIGH);

digitalWrite(led12,LOW);

delay(1000);

digitalWrite(led1,HIGH);

digitalWrite(led2,LOW);

digitalWrite(led3,LOW);

digitalWrite(led4,HIGH);

digitalWrite(led5,LOW);

digitalWrite(led6,LOW);

digitalWrite(led7,HIGH);

digitalWrite(led8,LOW);

digitalWrite(led9,LOW);

digitalWrite(led10,LOW);

digitalWrite(led11,LOW);

digitalWrite(led12,HIGH);

delay(3000);

digitalWrite(led1,LOW);

digitalWrite(led2,HIGH);

digitalWrite(led3,LOW);

digitalWrite(led4,HIGH);

digitalWrite(led5,LOW);

digitalWrite(led6,LOW);

digitalWrite(led7,HIGH);

digitalWrite(led8,LOW);

digitalWrite(led9,LOW);

digitalWrite(led10,LOW);

digitalWrite(led11,HIGH);

digitalWrite(led12,LOW);

delay(1000);

}

else if(a==1 && b==0 && c==0 && d==0)

{

lcd.clear();

lcd.setCursor(0,1);

lcd.print("2wards ELR & MTM");

lcd.setCursor(0,2);

lcd.print("2wards GNT");

thime();

digitalWrite(led1,LOW);

digitalWrite(led2,LOW);

digitalWrite(led3,HIGH);

digitalWrite(led4,HIGH);

digitalWrite(led5,LOW);

digitalWrite(led6,LOW);

digitalWrite(led7,HIGH);

digitalWrite(led8,LOW);

digitalWrite(led9,LOW);

digitalWrite(led10,HIGH);

digitalWrite(led11,LOW);

digitalWrite(led12,LOW);

delay(6000);

digitalWrite(led1,LOW);

digitalWrite(led2,HIGH);

digitalWrite(led3,LOW);

digitalWrite(led4,LOW);

digitalWrite(led5,HIGH);

digitalWrite(led6,LOW);

digitalWrite(led7,HIGH);

digitalWrite(led8,LOW);

digitalWrite(led9,LOW);

digitalWrite(led10,HIGH);

digitalWrite(led11,LOW);

digitalWrite(led12,LOW);

delay(1000);

digitalWrite(led1,HIGH);

digitalWrite(led2,LOW);

digitalWrite(led3,LOW);

digitalWrite(led4,LOW);

digitalWrite(led5,LOW);

digitalWrite(led6,HIGH);

digitalWrite(led7,HIGH);

digitalWrite(led8,LOW);

digitalWrite(led9,LOW);

digitalWrite(led10,HIGH);

digitalWrite(led11,LOW);

digitalWrite(led12,LOW);

delay(6000);

digitalWrite(led1,HIGH);

digitalWrite(led2,LOW);

digitalWrite(led3,LOW);

digitalWrite(led4,LOW);

digitalWrite(led5,HIGH);

digitalWrite(led6,LOW);

digitalWrite(led7,LOW);

digitalWrite(led8,HIGH);

digitalWrite(led9,LOW);

digitalWrite(led10,HIGH);

digitalWrite(led11,LOW);

digitalWrite(led12,LOW);

delay(1000);

digitalWrite(led1,HIGH);

digitalWrite(led2,LOW);

digitalWrite(led3,LOW);

digitalWrite(led4,HIGH);

digitalWrite(led5,LOW);

digitalWrite(led6,LOW);

digitalWrite(led7,LOW);

digitalWrite(led8,LOW);

digitalWrite(led9,HIGH);

digitalWrite(led10,HIGH);

digitalWrite(led11,LOW);

digitalWrite(led12,LOW);

delay(6000);

digitalWrite(led1,HIGH);

digitalWrite(led2,LOW);

digitalWrite(led3,LOW);

digitalWrite(led4,HIGH);

digitalWrite(led5,LOW);

digitalWrite(led6,LOW);

digitalWrite(led7,LOW);

digitalWrite(led8,HIGH);

digitalWrite(led9,LOW);

digitalWrite(led10,LOW);

digitalWrite(led11,HIGH);

digitalWrite(led12,LOW);

delay(1000);

digitalWrite(led1,HIGH);

digitalWrite(led2,LOW);

digitalWrite(led3,LOW);

digitalWrite(led4,HIGH);

digitalWrite(led5,LOW);

digitalWrite(led6,LOW);

digitalWrite(led7,HIGH);

digitalWrite(led8,LOW);

digitalWrite(led9,LOW);

digitalWrite(led10,LOW);

digitalWrite(led11,LOW);

digitalWrite(led12,HIGH);

delay(3000);

digitalWrite(led1,LOW);

digitalWrite(led2,HIGH);

digitalWrite(led3,LOW);

digitalWrite(led4,HIGH);

digitalWrite(led5,LOW);

digitalWrite(led6,LOW);

digitalWrite(led7,HIGH);

digitalWrite(led8,LOW);

digitalWrite(led9,LOW);

digitalWrite(led10,LOW);

digitalWrite(led11,HIGH);

digitalWrite(led12,LOW);

delay(1000);

}

else if(a==0 && b==1 && c==1 && d==1)

{

lcd.clear();

lcd.setCursor(3,1);

lcd.print("2wards VJA");

thime();

digitalWrite(led1,LOW);

digitalWrite(led2,LOW);

digitalWrite(led3,HIGH);

digitalWrite(led4,HIGH);

digitalWrite(led5,LOW);

digitalWrite(led6,LOW);

digitalWrite(led7,HIGH);

digitalWrite(led8,LOW);

digitalWrite(led9,LOW);

digitalWrite(led10,HIGH);

digitalWrite(led11,LOW);

digitalWrite(led12,LOW);

delay(3000);

digitalWrite(led1,LOW);

digitalWrite(led2,HIGH);

digitalWrite(led3,LOW);

digitalWrite(led4,LOW);

digitalWrite(led5,HIGH);

digitalWrite(led6,LOW);

digitalWrite(led7,HIGH);

digitalWrite(led8,LOW);

digitalWrite(led9,LOW);

digitalWrite(led10,HIGH);

digitalWrite(led11,LOW);

digitalWrite(led12,LOW);

delay(1000);

digitalWrite(led1,HIGH);

digitalWrite(led2,LOW);

digitalWrite(led3,LOW);

digitalWrite(led4,LOW);

digitalWrite(led5,LOW);

digitalWrite(led6,HIGH);

digitalWrite(led7,HIGH);

digitalWrite(led8,LOW);

digitalWrite(led9,LOW);

digitalWrite(led10,HIGH);

digitalWrite(led11,LOW);

digitalWrite(led12,LOW);

delay(3000);

digitalWrite(led1,HIGH);

digitalWrite(led2,LOW);

digitalWrite(led3,LOW);

digitalWrite(led4,LOW);

digitalWrite(led5,HIGH);

digitalWrite(led6,LOW);

digitalWrite(led7,LOW);

digitalWrite(led8,HIGH);

digitalWrite(led9,LOW);

digitalWrite(led10,HIGH);

digitalWrite(led11,LOW);

digitalWrite(led12,LOW);

delay(1000);

digitalWrite(led1,HIGH);

digitalWrite(led2,LOW);

digitalWrite(led3,LOW);

digitalWrite(led4,HIGH);

digitalWrite(led5,LOW);

digitalWrite(led6,LOW);

digitalWrite(led7,LOW);

digitalWrite(led8,LOW);

digitalWrite(led9,HIGH);

digitalWrite(led10,HIGH);

digitalWrite(led11,LOW);

digitalWrite(led12,LOW);

delay(3000);

digitalWrite(led1,HIGH);

digitalWrite(led2,LOW);

digitalWrite(led3,LOW);

digitalWrite(led4,HIGH);

digitalWrite(led5,LOW);

digitalWrite(led6,LOW);

digitalWrite(led7,LOW);

digitalWrite(led8,HIGH);

digitalWrite(led9,LOW);

digitalWrite(led10,LOW);

digitalWrite(led11,HIGH);

digitalWrite(led12,LOW);

delay(1000);

digitalWrite(led1,HIGH);

digitalWrite(led2,LOW);

digitalWrite(led3,LOW);

digitalWrite(led4,HIGH);

digitalWrite(led5,LOW);

digitalWrite(led6,LOW);

digitalWrite(led7,HIGH);

digitalWrite(led8,LOW);

digitalWrite(led9,LOW);

digitalWrite(led10,LOW);

digitalWrite(led11,LOW);

digitalWrite(led12,HIGH);

delay(6000);

digitalWrite(led1,LOW);

digitalWrite(led2,HIGH);

digitalWrite(led3,LOW);

digitalWrite(led4,HIGH);

digitalWrite(led5,LOW);

digitalWrite(led6,LOW);

digitalWrite(led7,HIGH);

digitalWrite(led8,LOW);

digitalWrite(led9,LOW);

digitalWrite(led10,LOW);

digitalWrite(led11,HIGH);

digitalWrite(led12,LOW);

delay(1000);

}

else if(a==0 && b==1 && c==1 && d==0)

{

lcd.clear();

lcd.setCursor(0,1);

lcd.print("2wards VJA");

lcd.setCursor(0,2);

lcd.print("2wards GNT");

thime();

digitalWrite(led1,LOW);

digitalWrite(led2,LOW);

digitalWrite(led3,HIGH);

digitalWrite(led4,HIGH);

digitalWrite(led5,LOW);

digitalWrite(led6,LOW);

digitalWrite(led7,HIGH);

digitalWrite(led8,LOW);

digitalWrite(led9,LOW);

digitalWrite(led10,HIGH);

digitalWrite(led11,LOW);

digitalWrite(led12,LOW);

delay(6000);

digitalWrite(led1,LOW);

digitalWrite(led2,HIGH);

digitalWrite(led3,LOW);

digitalWrite(led4,LOW);

digitalWrite(led5,HIGH);

digitalWrite(led6,LOW);

digitalWrite(led7,HIGH);

digitalWrite(led8,LOW);

digitalWrite(led9,LOW);

digitalWrite(led10,HIGH);

digitalWrite(led11,LOW);

digitalWrite(led12,LOW);

delay(1000);

digitalWrite(led1,HIGH);

digitalWrite(led2,LOW);

digitalWrite(led3,LOW);

digitalWrite(led4,LOW);

digitalWrite(led5,LOW);

digitalWrite(led6,HIGH);

digitalWrite(led7,HIGH);

digitalWrite(led8,LOW);

digitalWrite(led9,LOW);

digitalWrite(led10,HIGH);

digitalWrite(led11,LOW);

digitalWrite(led12,LOW);

delay(3000);

digitalWrite(led1,HIGH);

digitalWrite(led2,LOW);

digitalWrite(led3,LOW);

digitalWrite(led4,LOW);

digitalWrite(led5,HIGH);

digitalWrite(led6,LOW);

digitalWrite(led7,LOW);

digitalWrite(led8,HIGH);

digitalWrite(led9,LOW);

digitalWrite(led10,HIGH);

digitalWrite(led11,LOW);

digitalWrite(led12,LOW);

delay(1000);

digitalWrite(led1,HIGH);

digitalWrite(led2,LOW);

digitalWrite(led3,LOW);

digitalWrite(led4,HIGH);

digitalWrite(led5,LOW);

digitalWrite(led6,LOW);

digitalWrite(led7,LOW);

digitalWrite(led8,LOW);

digitalWrite(led9,HIGH);

digitalWrite(led10,HIGH);

digitalWrite(led11,LOW);

digitalWrite(led12,LOW);

delay(3000);

digitalWrite(led1,HIGH);

digitalWrite(led2,LOW);

digitalWrite(led3,LOW);

digitalWrite(led4,HIGH);

digitalWrite(led5,LOW);

digitalWrite(led6,LOW);

digitalWrite(led7,LOW);

digitalWrite(led8,HIGH);

digitalWrite(led9,LOW);

digitalWrite(led10,LOW);

digitalWrite(led11,HIGH);

digitalWrite(led12,LOW);

delay(1000);

digitalWrite(led1,HIGH);

digitalWrite(led2,LOW);

digitalWrite(led3,LOW);

digitalWrite(led4,HIGH);

digitalWrite(led5,LOW);

digitalWrite(led6,LOW);

digitalWrite(led7,HIGH);

digitalWrite(led8,LOW);

digitalWrite(led9,LOW);

digitalWrite(led10,LOW);

digitalWrite(led11,LOW);

digitalWrite(led12,HIGH);

delay(6000);

digitalWrite(led1,LOW);

digitalWrite(led2,HIGH);

digitalWrite(led3,LOW);

digitalWrite(led4,HIGH);

digitalWrite(led5,LOW);

digitalWrite(led6,LOW);

digitalWrite(led7,HIGH);

digitalWrite(led8,LOW);

digitalWrite(led9,LOW);

digitalWrite(led10,LOW);

digitalWrite(led11,HIGH);

digitalWrite(led12,LOW);

delay(1000);

}

else if(a==0 && b==1 && c==0 && d==1)

{

lcd.clear();

lcd.setCursor(0,1);

lcd.print("2wards VJA");

lcd.setCursor(0,2);

lcd.print("2wards MTM");

thime();

digitalWrite(led1,LOW);

digitalWrite(led2,LOW);

digitalWrite(led3,HIGH);

digitalWrite(led4,HIGH);

digitalWrite(led5,LOW);

digitalWrite(led6,LOW);

digitalWrite(led7,HIGH);

digitalWrite(led8,LOW);

digitalWrite(led9,LOW);

digitalWrite(led10,HIGH);

digitalWrite(led11,LOW);

digitalWrite(led12,LOW);

delay(3000);

digitalWrite(led1,LOW);

digitalWrite(led2,HIGH);

digitalWrite(led3,LOW);

digitalWrite(led4,LOW);

digitalWrite(led5,HIGH);

digitalWrite(led6,LOW);

digitalWrite(led7,HIGH);

digitalWrite(led8,LOW);

digitalWrite(led9,LOW);

digitalWrite(led10,HIGH);

digitalWrite(led11,LOW);

digitalWrite(led12,LOW);

delay(1000);

digitalWrite(led1,HIGH);

digitalWrite(led2,LOW);

digitalWrite(led3,LOW);

digitalWrite(led4,LOW);

digitalWrite(led5,LOW);

digitalWrite(led6,HIGH);

digitalWrite(led7,HIGH);

digitalWrite(led8,LOW);

digitalWrite(led9,LOW);

digitalWrite(led10,HIGH);

digitalWrite(led11,LOW);

digitalWrite(led12,LOW);

delay(6000);

digitalWrite(led1,HIGH);

digitalWrite(led2,LOW);

digitalWrite(led3,LOW);

digitalWrite(led4,LOW);

digitalWrite(led5,HIGH);

digitalWrite(led6,LOW);

digitalWrite(led7,LOW);

digitalWrite(led8,HIGH);

digitalWrite(led9,LOW);

digitalWrite(led10,HIGH);

digitalWrite(led11,LOW);

digitalWrite(led12,LOW);

delay(1000);

digitalWrite(led1,HIGH);

digitalWrite(led2,LOW);

digitalWrite(led3,LOW);

digitalWrite(led4,HIGH);

digitalWrite(led5,LOW);

digitalWrite(led6,LOW);

digitalWrite(led7,LOW);

digitalWrite(led8,LOW);

digitalWrite(led9,HIGH);

digitalWrite(led10,HIGH);

digitalWrite(led11,LOW);

digitalWrite(led12,LOW);

delay(3000);

digitalWrite(led1,HIGH);

digitalWrite(led2,LOW);

digitalWrite(led3,LOW);

digitalWrite(led4,HIGH);

digitalWrite(led5,LOW);

digitalWrite(led6,LOW);

digitalWrite(led7,LOW);

digitalWrite(led8,HIGH);

digitalWrite(led9,LOW);

digitalWrite(led10,LOW);

digitalWrite(led11,HIGH);

digitalWrite(led12,LOW);

delay(1000);

digitalWrite(led1,HIGH);

digitalWrite(led2,LOW);

digitalWrite(led3,LOW);

digitalWrite(led4,HIGH);

digitalWrite(led5,LOW);

digitalWrite(led6,LOW);

digitalWrite(led7,HIGH);

digitalWrite(led8,LOW);

digitalWrite(led9,LOW);

digitalWrite(led10,LOW);

digitalWrite(led11,LOW);

digitalWrite(led12,HIGH);

delay(6000);

digitalWrite(led1,LOW);

digitalWrite(led2,HIGH);

digitalWrite(led3,LOW);

digitalWrite(led4,HIGH);

digitalWrite(led5,LOW);

digitalWrite(led6,LOW);

digitalWrite(led7,HIGH);

digitalWrite(led8,LOW);

digitalWrite(led9,LOW);

digitalWrite(led10,LOW);

digitalWrite(led11,HIGH);

digitalWrite(led12,LOW);

delay(1000);

}

else if(a==0 && b==1 && c==0 && d==0)

{

lcd.clear();

lcd.setCursor(0,1);

lcd.print("2wards VJA");

lcd.setCursor(0,2);

lcd.print("2wards GNT & ELR");

thime();

digitalWrite(led1,LOW);

digitalWrite(led2,LOW);

digitalWrite(led3,HIGH);

digitalWrite(led4,HIGH);

digitalWrite(led5,LOW);

digitalWrite(led6,LOW);

digitalWrite(led7,HIGH);

digitalWrite(led8,LOW);

digitalWrite(led9,LOW);

digitalWrite(led10,HIGH);

digitalWrite(led11,LOW);

digitalWrite(led12,LOW);

delay(6000);

digitalWrite(led1,LOW);

digitalWrite(led2,HIGH);

digitalWrite(led3,LOW);

digitalWrite(led4,LOW);

digitalWrite(led5,HIGH);

digitalWrite(led6,LOW);

digitalWrite(led7,HIGH);

digitalWrite(led8,LOW);

digitalWrite(led9,LOW);

digitalWrite(led10,HIGH);

digitalWrite(led11,LOW);

digitalWrite(led12,LOW);

delay(1000);

digitalWrite(led1,HIGH);

digitalWrite(led2,LOW);

digitalWrite(led3,LOW);

digitalWrite(led4,LOW);

digitalWrite(led5,LOW);

digitalWrite(led6,HIGH);

digitalWrite(led7,HIGH);

digitalWrite(led8,LOW);

digitalWrite(led9,LOW);

digitalWrite(led10,HIGH);

digitalWrite(led11,LOW);

digitalWrite(led12,LOW);

delay(6000);

digitalWrite(led1,HIGH);

digitalWrite(led2,LOW);

digitalWrite(led3,LOW);

digitalWrite(led4,LOW);

digitalWrite(led5,HIGH);

digitalWrite(led6,LOW);

digitalWrite(led7,LOW);

digitalWrite(led8,HIGH);

digitalWrite(led9,LOW);

digitalWrite(led10,HIGH);

digitalWrite(led11,LOW);

digitalWrite(led12,LOW);

delay(1000);

digitalWrite(led1,HIGH);

digitalWrite(led2,LOW);

digitalWrite(led3,LOW);

digitalWrite(led4,HIGH);

digitalWrite(led5,LOW);

digitalWrite(led6,LOW);

digitalWrite(led7,LOW);

digitalWrite(led8,LOW);

digitalWrite(led9,HIGH);

digitalWrite(led10,HIGH);

digitalWrite(led11,LOW);

digitalWrite(led12,LOW);

delay(3000);

digitalWrite(led1,HIGH);

digitalWrite(led2,LOW);

digitalWrite(led3,LOW);

digitalWrite(led4,HIGH);

digitalWrite(led5,LOW);

digitalWrite(led6,LOW);

digitalWrite(led7,LOW);

digitalWrite(led8,HIGH);

digitalWrite(led9,LOW);

digitalWrite(led10,LOW);

digitalWrite(led11,HIGH);

digitalWrite(led12,LOW);

delay(1000);

digitalWrite(led1,HIGH);

digitalWrite(led2,LOW);

digitalWrite(led3,LOW);

digitalWrite(led4,HIGH);

digitalWrite(led5,LOW);

digitalWrite(led6,LOW);

digitalWrite(led7,HIGH);

digitalWrite(led8,LOW);

digitalWrite(led9,LOW);

digitalWrite(led10,LOW);

digitalWrite(led11,LOW);

digitalWrite(led12,HIGH);

delay(6000);

digitalWrite(led1,LOW);

digitalWrite(led2,HIGH);

digitalWrite(led3,LOW);

digitalWrite(led4,HIGH);

digitalWrite(led5,LOW);

digitalWrite(led6,LOW);

digitalWrite(led7,HIGH);

digitalWrite(led8,LOW);

digitalWrite(led9,LOW);

digitalWrite(led10,LOW);

digitalWrite(led11,HIGH);

digitalWrite(led12,LOW);

delay(1000);

}

else if(a==0 && b==0 && c==1 && d==1)

{

lcd.clear();

lcd.setCursor(0,1);

lcd.print("2wards VJA");

lcd.setCursor(0,2);

lcd.print("2wards ELR");

thime();

digitalWrite(led1,LOW);

digitalWrite(led2,LOW);

digitalWrite(led3,HIGH);

digitalWrite(led4,HIGH);

digitalWrite(led5,LOW);

digitalWrite(led6,LOW);

digitalWrite(led7,HIGH);

digitalWrite(led8,LOW);

digitalWrite(led9,LOW);

digitalWrite(led10,HIGH);

digitalWrite(led11,LOW);

digitalWrite(led12,LOW);

delay(3000);

digitalWrite(led1,LOW);

digitalWrite(led2,HIGH);

digitalWrite(led3,LOW);

digitalWrite(led4,LOW);

digitalWrite(led5,HIGH);

digitalWrite(led6,LOW);

digitalWrite(led7,HIGH);

digitalWrite(led8,LOW);

digitalWrite(led9,LOW);

digitalWrite(led10,HIGH);

digitalWrite(led11,LOW);

digitalWrite(led12,LOW);

delay(1000);

digitalWrite(led1,HIGH);

digitalWrite(led2,LOW);

digitalWrite(led3,LOW);

digitalWrite(led4,LOW);

digitalWrite(led5,LOW);

digitalWrite(led6,HIGH);

digitalWrite(led7,HIGH);

digitalWrite(led8,LOW);

digitalWrite(led9,LOW);

digitalWrite(led10,HIGH);

digitalWrite(led11,LOW);

digitalWrite(led12,LOW);

delay(3000);

digitalWrite(led1,HIGH);

digitalWrite(led2,LOW);

digitalWrite(led3,LOW);

digitalWrite(led4,LOW);

digitalWrite(led5,HIGH);

digitalWrite(led6,LOW);

digitalWrite(led7,LOW);

digitalWrite(led8,HIGH);

digitalWrite(led9,LOW);

digitalWrite(led10,HIGH);

digitalWrite(led11,LOW);

digitalWrite(led12,LOW);

delay(1000);

digitalWrite(led1,HIGH);

digitalWrite(led2,LOW);

digitalWrite(led3,LOW);

digitalWrite(led4,HIGH);

digitalWrite(led5,LOW);

digitalWrite(led6,LOW);

digitalWrite(led7,LOW);

digitalWrite(led8,LOW);

digitalWrite(led9,HIGH);

digitalWrite(led10,HIGH);

digitalWrite(led11,LOW);

digitalWrite(led12,LOW);

delay(6000);

digitalWrite(led1,HIGH);

digitalWrite(led2,LOW);

digitalWrite(led3,LOW);

digitalWrite(led4,HIGH);

digitalWrite(led5,LOW);

digitalWrite(led6,LOW);

digitalWrite(led7,LOW);

digitalWrite(led8,HIGH);

digitalWrite(led9,LOW);

digitalWrite(led10,LOW);

digitalWrite(led11,HIGH);

digitalWrite(led12,LOW);

delay(1000);

digitalWrite(led1,HIGH);

digitalWrite(led2,LOW);

digitalWrite(led3,LOW);

digitalWrite(led4,HIGH);

digitalWrite(led5,LOW);

digitalWrite(led6,LOW);

digitalWrite(led7,HIGH);

digitalWrite(led8,LOW);

digitalWrite(led9,LOW);

digitalWrite(led10,LOW);

digitalWrite(led11,LOW);

digitalWrite(led12,HIGH);

delay(6000);

digitalWrite(led1,LOW);

digitalWrite(led2,HIGH);

digitalWrite(led3,LOW);

digitalWrite(led4,HIGH);

digitalWrite(led5,LOW);

digitalWrite(led6,LOW);

digitalWrite(led7,HIGH);

digitalWrite(led8,LOW);

digitalWrite(led9,LOW);

digitalWrite(led10,LOW);

digitalWrite(led11,HIGH);

digitalWrite(led12,LOW);

delay(1000);

}

else if(a==0 && b==0 && c==1 && d==0)

{

lcd.clear();

lcd.setCursor(0,1);

lcd.print("2wards VJA");

lcd.setCursor(0,2);

lcd.print("2wards GNT & ELR");

thime();

digitalWrite(led1,LOW);

digitalWrite(led2,LOW);

digitalWrite(led3,HIGH);

digitalWrite(led4,HIGH);

digitalWrite(led5,LOW);

digitalWrite(led6,LOW);

digitalWrite(led7,HIGH);

digitalWrite(led8,LOW);

digitalWrite(led9,LOW);

digitalWrite(led10,HIGH);

digitalWrite(led11,LOW);

digitalWrite(led12,LOW);

delay(6000);

digitalWrite(led1,LOW);

digitalWrite(led2,HIGH);

digitalWrite(led3,LOW);

digitalWrite(led4,LOW);

digitalWrite(led5,HIGH);

digitalWrite(led6,LOW);

digitalWrite(led7,HIGH);

digitalWrite(led8,LOW);

digitalWrite(led9,LOW);

digitalWrite(led10,HIGH);

digitalWrite(led11,LOW);

digitalWrite(led12,LOW);

delay(1000);

digitalWrite(led1,HIGH);

digitalWrite(led2,LOW);

digitalWrite(led3,LOW);

digitalWrite(led4,LOW);

digitalWrite(led5,LOW);

digitalWrite(led6,HIGH);

digitalWrite(led7,HIGH);

digitalWrite(led8,LOW);

digitalWrite(led9,LOW);

digitalWrite(led10,HIGH);

digitalWrite(led11,LOW);

digitalWrite(led12,LOW);

delay(3000);

digitalWrite(led1,HIGH);

digitalWrite(led2,LOW);

digitalWrite(led3,LOW);

digitalWrite(led4,LOW);

digitalWrite(led5,HIGH);

digitalWrite(led6,LOW);

digitalWrite(led7,LOW);

digitalWrite(led8,HIGH);

digitalWrite(led9,LOW);

digitalWrite(led10,HIGH);

digitalWrite(led11,LOW);

digitalWrite(led12,LOW);

delay(1000);

digitalWrite(led1,HIGH);

digitalWrite(led2,LOW);

digitalWrite(led3,LOW);

digitalWrite(led4,HIGH);

digitalWrite(led5,LOW);

digitalWrite(led6,LOW);

digitalWrite(led7,LOW);

digitalWrite(led8,LOW);

digitalWrite(led9,HIGH);

digitalWrite(led10,HIGH);

digitalWrite(led11,LOW);

digitalWrite(led12,LOW);

delay(6000);

digitalWrite(led1,HIGH);

digitalWrite(led2,LOW);

digitalWrite(led3,LOW);

digitalWrite(led4,HIGH);

digitalWrite(led5,LOW);

digitalWrite(led6,LOW);

digitalWrite(led7,LOW);

digitalWrite(led8,HIGH);

digitalWrite(led9,LOW);

digitalWrite(led10,LOW);

digitalWrite(led11,HIGH);

digitalWrite(led12,LOW);

delay(1000);

digitalWrite(led1,HIGH);

digitalWrite(led2,LOW);

digitalWrite(led3,LOW);

digitalWrite(led4,HIGH);

digitalWrite(led5,LOW);

digitalWrite(led6,LOW);

digitalWrite(led7,HIGH);

digitalWrite(led8,LOW);

digitalWrite(led9,LOW);

digitalWrite(led10,LOW);

digitalWrite(led11,LOW);

digitalWrite(led12,HIGH);

delay(6000);

digitalWrite(led1,LOW);

digitalWrite(led2,HIGH);

digitalWrite(led3,LOW);

digitalWrite(led4,HIGH);

digitalWrite(led5,LOW);

digitalWrite(led6,LOW);

digitalWrite(led7,HIGH);

digitalWrite(led8,LOW);

digitalWrite(led9,LOW);

digitalWrite(led10,LOW);

digitalWrite(led11,HIGH);

digitalWrite(led12,LOW);

delay(1000);

}

else if(a==0 && b==0 && c==0 && d==1)

{

lcd.clear();

lcd.setCursor(0,1);

lcd.print("2wards VJA");

lcd.setCursor(0,2);

lcd.print("2wards GNT & MTM");

thime();

digitalWrite(led1,LOW);

digitalWrite(led2,LOW);

digitalWrite(led3,HIGH);

digitalWrite(led4,HIGH);

digitalWrite(led5,LOW);

digitalWrite(led6,LOW);

digitalWrite(led7,HIGH);

digitalWrite(led8,LOW);

digitalWrite(led9,LOW);

digitalWrite(led10,HIGH);

digitalWrite(led11,LOW);

digitalWrite(led12,LOW);

delay(6000);

digitalWrite(led1,LOW);

digitalWrite(led2,HIGH);

digitalWrite(led3,LOW);

digitalWrite(led4,LOW);

digitalWrite(led5,HIGH);

digitalWrite(led6,LOW);

digitalWrite(led7,HIGH);

digitalWrite(led8,LOW);

digitalWrite(led9,LOW);

digitalWrite(led10,HIGH);

digitalWrite(led11,LOW);

digitalWrite(led12,LOW);

delay(1000);

digitalWrite(led1,HIGH);

digitalWrite(led2,LOW);

digitalWrite(led3,LOW);

digitalWrite(led4,LOW);

digitalWrite(led5,LOW);

digitalWrite(led6,HIGH);

digitalWrite(led7,HIGH);

digitalWrite(led8,LOW);

digitalWrite(led9,LOW);

digitalWrite(led10,HIGH);

digitalWrite(led11,LOW);

digitalWrite(led12,LOW);

delay(3000);

digitalWrite(led1,HIGH);

digitalWrite(led2,LOW);

digitalWrite(led3,LOW);

digitalWrite(led4,LOW);

digitalWrite(led5,HIGH);

digitalWrite(led6,LOW);

digitalWrite(led7,LOW);

digitalWrite(led8,HIGH);

digitalWrite(led9,LOW);

digitalWrite(led10,HIGH);

digitalWrite(led11,LOW);

digitalWrite(led12,LOW);

delay(1000);

digitalWrite(led1,HIGH);

digitalWrite(led2,LOW);

digitalWrite(led3,LOW);

digitalWrite(led4,HIGH);

digitalWrite(led5,LOW);

digitalWrite(led6,LOW);

digitalWrite(led7,LOW);

digitalWrite(led8,LOW);

digitalWrite(led9,HIGH);

digitalWrite(led10,HIGH);

digitalWrite(led11,LOW);

digitalWrite(led12,LOW);

delay(6000);

digitalWrite(led1,HIGH);

digitalWrite(led2,LOW);

digitalWrite(led3,LOW);

digitalWrite(led4,HIGH);

digitalWrite(led5,LOW);

digitalWrite(led6,LOW);

digitalWrite(led7,LOW);

digitalWrite(led8,HIGH);

digitalWrite(led9,LOW);

digitalWrite(led10,LOW);

digitalWrite(led11,HIGH);

digitalWrite(led12,LOW);

delay(1000);

digitalWrite(led1,HIGH);

digitalWrite(led2,LOW);

digitalWrite(led3,LOW);

digitalWrite(led4,HIGH);

digitalWrite(led5,LOW);

digitalWrite(led6,LOW);

digitalWrite(led7,HIGH);

digitalWrite(led8,LOW);

digitalWrite(led9,LOW);

digitalWrite(led10,LOW);

digitalWrite(led11,LOW);

digitalWrite(led12,HIGH);

delay(6000);

digitalWrite(led1,LOW);

digitalWrite(led2,HIGH);

digitalWrite(led3,LOW);

digitalWrite(led4,HIGH);

digitalWrite(led5,LOW);

digitalWrite(led6,LOW);

digitalWrite(led7,HIGH);

digitalWrite(led8,LOW);

digitalWrite(led9,LOW);

digitalWrite(led10,LOW);

digitalWrite(led11,HIGH);

digitalWrite(led12,LOW);

delay(1000);

}

else if(a==0 && b==0 && c==0 && d==0)

{

lcd.clear();

lcd.setCursor(0,1);

lcd.print("2wards VJA & MTM");

lcd.setCursor(0,2);

lcd.print("2wards GNT & ELR");

thime();

digitalWrite(led1,LOW);

digitalWrite(led2,LOW);

digitalWrite(led3,HIGH);

digitalWrite(led4,HIGH);

digitalWrite(led5,LOW);

digitalWrite(led6,LOW);

digitalWrite(led7,HIGH);

digitalWrite(led8,LOW);

digitalWrite(led9,LOW);

digitalWrite(led10,HIGH);

digitalWrite(led11,LOW);

digitalWrite(led12,LOW);

delay(6000);

digitalWrite(led1,LOW);

digitalWrite(led2,HIGH);

digitalWrite(led3,LOW);

digitalWrite(led4,LOW);

digitalWrite(led5,HIGH);

digitalWrite(led6,LOW);

digitalWrite(led7,HIGH);

digitalWrite(led8,LOW);

digitalWrite(led9,LOW);

digitalWrite(led10,HIGH);

digitalWrite(led11,LOW);

digitalWrite(led12,LOW);

delay(1000);

digitalWrite(led1,HIGH);

digitalWrite(led2,LOW);

digitalWrite(led3,LOW);

digitalWrite(led4,LOW);

digitalWrite(led5,LOW);

digitalWrite(led6,HIGH);

digitalWrite(led7,HIGH);

digitalWrite(led8,LOW);

digitalWrite(led9,LOW);

digitalWrite(led10,HIGH);

digitalWrite(led11,LOW);

digitalWrite(led12,LOW);

delay(6000);

digitalWrite(led1,HIGH);

digitalWrite(led2,LOW);

digitalWrite(led3,LOW);

digitalWrite(led4,LOW);

digitalWrite(led5,HIGH);

digitalWrite(led6,LOW);

digitalWrite(led7,LOW);

digitalWrite(led8,HIGH);

digitalWrite(led9,LOW);

digitalWrite(led10,HIGH);

digitalWrite(led11,LOW);

digitalWrite(led12,LOW);

delay(1000);

digitalWrite(led1,HIGH);

digitalWrite(led2,LOW);

digitalWrite(led3,LOW);

digitalWrite(led4,HIGH);

digitalWrite(led5,LOW);

digitalWrite(led6,LOW);

digitalWrite(led7,LOW);

digitalWrite(led8,LOW);

digitalWrite(led9,HIGH);

digitalWrite(led10,HIGH);

digitalWrite(led11,LOW);

digitalWrite(led12,LOW);

delay(6000);

digitalWrite(led1,HIGH);

digitalWrite(led2,LOW);

digitalWrite(led3,LOW);

digitalWrite(led4,HIGH);

digitalWrite(led5,LOW);

digitalWrite(led6,LOW);

digitalWrite(led7,LOW);

digitalWrite(led8,HIGH);

digitalWrite(led9,LOW);

digitalWrite(led10,LOW);

digitalWrite(led11,HIGH);

digitalWrite(led12,LOW);

delay(1000);

digitalWrite(led1,HIGH);

digitalWrite(led2,LOW);

digitalWrite(led3,LOW);

digitalWrite(led4,HIGH);

digitalWrite(led5,LOW);

digitalWrite(led6,LOW);

digitalWrite(led7,HIGH);

digitalWrite(led8,LOW);

digitalWrite(led9,LOW);

digitalWrite(led10,LOW);

digitalWrite(led11,LOW);

digitalWrite(led12,HIGH);

delay(6000);

digitalWrite(led1,LOW);

digitalWrite(led2,HIGH);

digitalWrite(led3,LOW);

digitalWrite(led4,HIGH);

digitalWrite(led5,LOW);

digitalWrite(led6,LOW);

digitalWrite(led7,HIGH);

digitalWrite(led8,LOW);

digitalWrite(led9,LOW);

digitalWrite(led10,LOW);

digitalWrite(led11,HIGH);

digitalWrite(led12,LOW);

delay(1000);

}

}