**COLUMNS:**

int column[16] = {13,12,11,10 ,6,7,8,9 ,5,4,3,2, A4,A5,0,1};

int layer[4] = {A3, A2, A1, A0};

void setup() {

  for (int i=0; i<16; i++) {

    pinMode(column[i], OUTPUT);

  }

  for (int i=0; i<4; i++) {

    pinMode(layer[i], OUTPUT);

  }

}

int x=200;

void loop()

{

  for (int i=0; i<16; i++) {

    digitalWrite(column[i], 1);

  }

  for (int i=0; i<4; i++) {

    digitalWrite(layer[i], 0);

  }

  for(int i=0; i<16; i++)

  {

    digitalWrite(column[i], 0);

    for(int i=0; i<4; i++) {

      digitalWrite(layer[i], 1);

      delay(x);

      digitalWrite(layer[i], 0);

    }

    delay(x);

    digitalWrite(column[i], 1);

  }

}

**ROWS:**

int column[16] = {13,12,11,10 ,6,7,8,9 ,5,4,3,2, A4,A5,0,1};

int layer[4] = {A3, A2, A1, A0};

void setup()

{

  for (int i=0; i<16; i++) {

    pinMode(column[i], OUTPUT);

  }

  for (int i=0; i<4; i++) {

    pinMode(layer[i], OUTPUT);

  }

}

int x=200;

void loop()

{

  for (int i=0; i<16; i++) {

    digitalWrite(column[i], 1);

  }

  for (int i=0; i<4; i++) {

    digitalWrite(layer[i], 0);

  }

  for(int i=0; i<4; i++) {

    digitalWrite(layer[i], 1);

    for(int i=0; i<16; i++) {

      digitalWrite(column[i], 0);

      delay(x);

      digitalWrite(column[i], 1);

    }

    delay(x);

    digitalWrite(layer[i], 0);

  }

}

**AISHA:**

int layer[4]={A3,A2,A1,A0}; //initializing and declaring led layers

int column[16]={13,12,11,10,9,8,7,6,5,4,3,2,1,0,A5,A4}; //initializing and declaring led rows

void setup() {

 for(int i = 0; i<16; i++) {

 pinMode(column[i], OUTPUT); //setting rows to output

 }

 for(int i = 0; i<4; i++){

 pinMode(layer[i], OUTPUT); //setting layers to output

 }

}

void loop(){

turnOnA();

turnOnI();

turnOnS();

turnOnH();

turnOnA2();

}

void turnOnA(){

 int x = 200;

 //for fourth Alphabet "A"

 for(int i = 0; i<16; i++){

 digitalWrite(layer[3],1);

 digitalWrite(layer [2],0);

 digitalWrite(layer [1],0);

 digitalWrite(layer [0],0);

 digitalWrite (column [0],0);

 digitalWrite (column [1],0);

 digitalWrite (column [2],0);

 digitalWrite (column [3],0);

 digitalWrite (column [4],0);

 digitalWrite (column [5],0);

 digitalWrite(column [6],1);

 digitalWrite(column [7],1);

 digitalWrite(column [8],0);

 digitalWrite(column [9],0);

 digitalWrite(column [10],1);

 digitalWrite(column [11],1);

 digitalWrite(column [12],0);

 digitalWrite(column [13],0);

 digitalWrite(column [14],0);

 digitalWrite(column [15],0);

 delay (x);

 }

}

void turnOnI(){

 int x = 200;

 //for second Alphabet "I"

 for(int i = 0; i<16; i++){

 digitalWrite(layer[3],1);

 digitalWrite(layer [2],0);

 digitalWrite(layer [1],0);

 digitalWrite(layer [0],0);

 digitalWrite (column [0],0);

 digitalWrite (column [1],1);

 digitalWrite (column [2],1);

 digitalWrite (column [3],0);

 digitalWrite (column [4],0);

 digitalWrite (column [5],0);

 digitalWrite(column [6],0);

 digitalWrite(column [7],0);

 digitalWrite(column [8],0);

 digitalWrite(column [9],1);

 digitalWrite(column [10],1);

 digitalWrite(column [11],0);

 digitalWrite(column [12],0);

 digitalWrite(column [13],1);

 digitalWrite(column [14],1);

 digitalWrite(column [15],0);

 delay (x);

 }

}

void turnOnS(){

 int x = 200;

 //for Third Alphabet "S”

 for(int i = 0; i<16; i++){

 digitalWrite(layer[3],1);

 digitalWrite(layer [2],0);

 digitalWrite(layer [1],0);

 digitalWrite(layer [0],0);

 digitalWrite (column [0],0);

 digitalWrite (column [1],0);

 digitalWrite (column [2],1);

 digitalWrite (column [3],0);

 digitalWrite (column [4],0);

 digitalWrite (column [5],0);

 digitalWrite(column [6],1);

 digitalWrite(column [7],0);

 digitalWrite(column [8],0);

 digitalWrite(column [9],0);

 digitalWrite(column [10],1);

 digitalWrite(column [11],0);

 digitalWrite(column [12],0);

 digitalWrite(column [13],0);

 digitalWrite(column [14],0);

 digitalWrite(column [15],0);

 delay (x);

 }

}

void turnOnH(){

 int x = 200;

 //for Third Alphabet "H”

 for(int i = 0; i<16; i++){

 digitalWrite(layer[3],1);

 digitalWrite(layer [2],0);

 digitalWrite(layer [1],0);

 digitalWrite(layer [0],0);

 digitalWrite (column [0],0);

 digitalWrite (column [1],0);

 digitalWrite (column [2],0);

 digitalWrite (column [3],0);

 digitalWrite (column [4],1);

 digitalWrite (column [5],0);

 digitalWrite(column [6],0);

 digitalWrite(column [7],1);

 digitalWrite(column [8],1);

 digitalWrite(column [9],0);

 digitalWrite(column [10],0);

 digitalWrite(column [11],1);

 digitalWrite(column [12],0);

 digitalWrite(column [13],0);

 digitalWrite(column [14],0);

 digitalWrite(column [15],0);

 delay (x);

 }

}

void turnOnA2(){

 int x = 200;

 //for fourth Alphabet "A"

 for(int i = 0; i<16; i++){

 digitalWrite(layer[3],1);

 digitalWrite(layer [2],0);

 digitalWrite(layer [1],0);

 digitalWrite(layer [0],0);

 digitalWrite (column [0],0);

 digitalWrite (column [1],0);

 digitalWrite (column [2],0);

 digitalWrite (column [3],0);

 digitalWrite (column [4],0);

 digitalWrite (column [5],0);

 digitalWrite(column [6],1);

 digitalWrite(column [7],1);

 digitalWrite(column [8],0);

 digitalWrite(column [9],0);

 digitalWrite(column [10],1);

 digitalWrite(column [11],1);

 digitalWrite(column [12],0);

 digitalWrite(column [13],0);

 digitalWrite(column [14],0);

 digitalWrite(column [15],0);

 delay (x);

 }

}