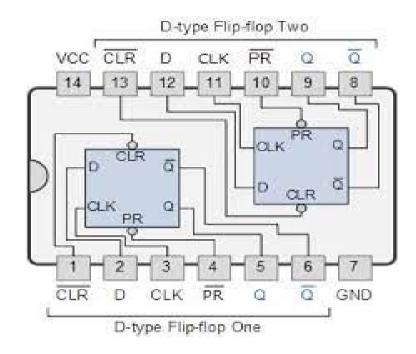
DECADE COUNTER

7474 IC Pin diagrame:



7447:



Connections:

	INPUT				OUTPUT								
	W	X	Y	Z	A	В	С	D	CLOCK	5V			
	D6	D7	D8	D9	D2	D3	D4	D5	D13				
Ar- duin	0												
7474	5	9			2	12			CLK1CLK2	1 4	10	13	
7474	1		5	9			2	12	CLK1CLK2	1 4	10	13	
744	7				7	1	2	6		16			

Code:

```
#include <Arduino.h>
int W,X,Y,Z;
int D,C,B,A;
void disp_7447(int D,int C,int B, int A)
{
 digitalWrite(2, A); //LSB
 digitalWrite(3, B);
 digitalWrite(4, C);
 digitalWrite(5, D); //MSB
}
void setup() {
pinMode(2, OUTPUT);
pinMode(3, OUTPUT);
pinMode(4, OUTPUT);
pinMode(5, OUTPUT);
pinMode(6, INPUT);
pinMode(7, INPUT);
pinMode(8, INPUT);
pinMode(9, INPUT);
pinMode(13, OUTPUT);
```

```
}
void loop() {
digitalWrite(13, HIGH);
delay(2000);
disp_7447(D,C,B,A);
W = digitalRead(6);
X = digitalRead(7);
Y = digitalRead(8);
Z = digitalRead(9);
A = (!W);
B = (!W\&\&!X\&\&Y) \mid\mid (W\&\&X) \mid\mid (!W\&\&Z);
C = (!W\&\&Z) \mid\mid (X\&\&Y) \mid\mid (W\&\&Y);
D = (!W\&\&!X\&\&!Y\&\&!Z)||(W\&\&Z);
delay(500);
W = A;
X = B;
Y = C;
Z = D;
digitalWrite(13, LOW);
delay(1000);
}
```

Output:

Incrementing counter from 0 to 9 in seven segment

Whats the processes going on???