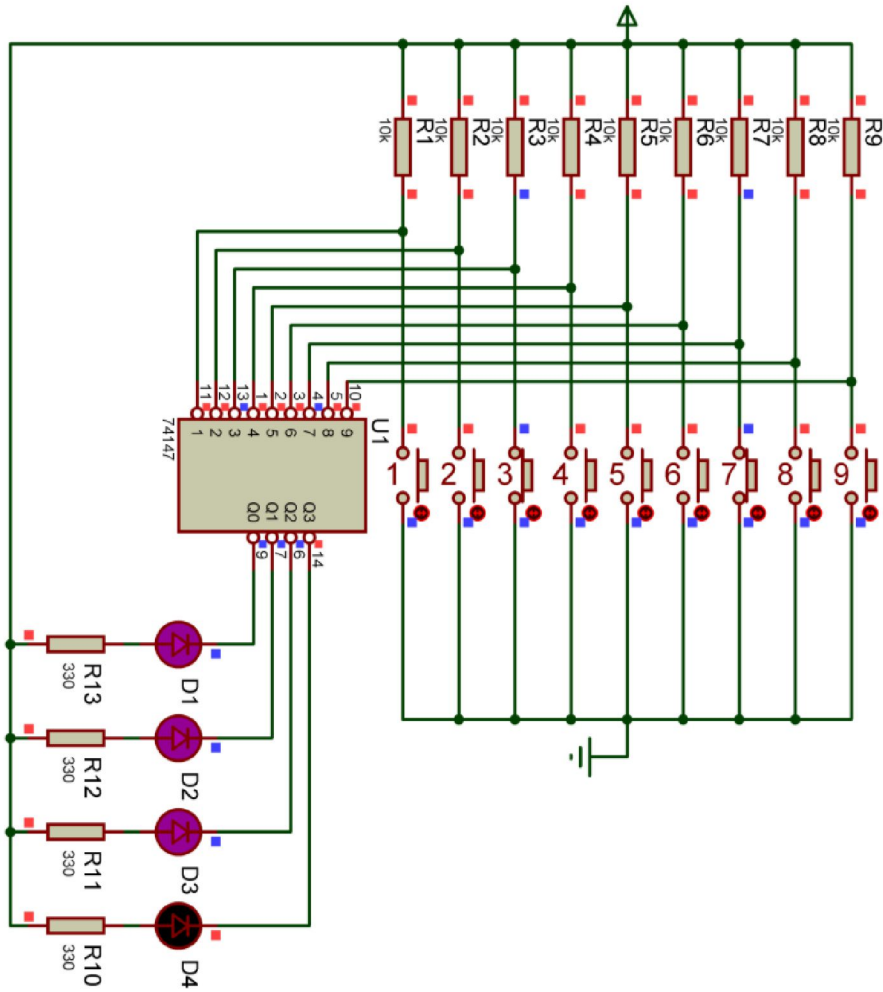


Exercice 1 : Fonction codage décimal/BCD

- 1- Donner les noms des entrées et des sorties du circuit 74147 ?.....
- 2- Compléter le tableau en se référant au montage

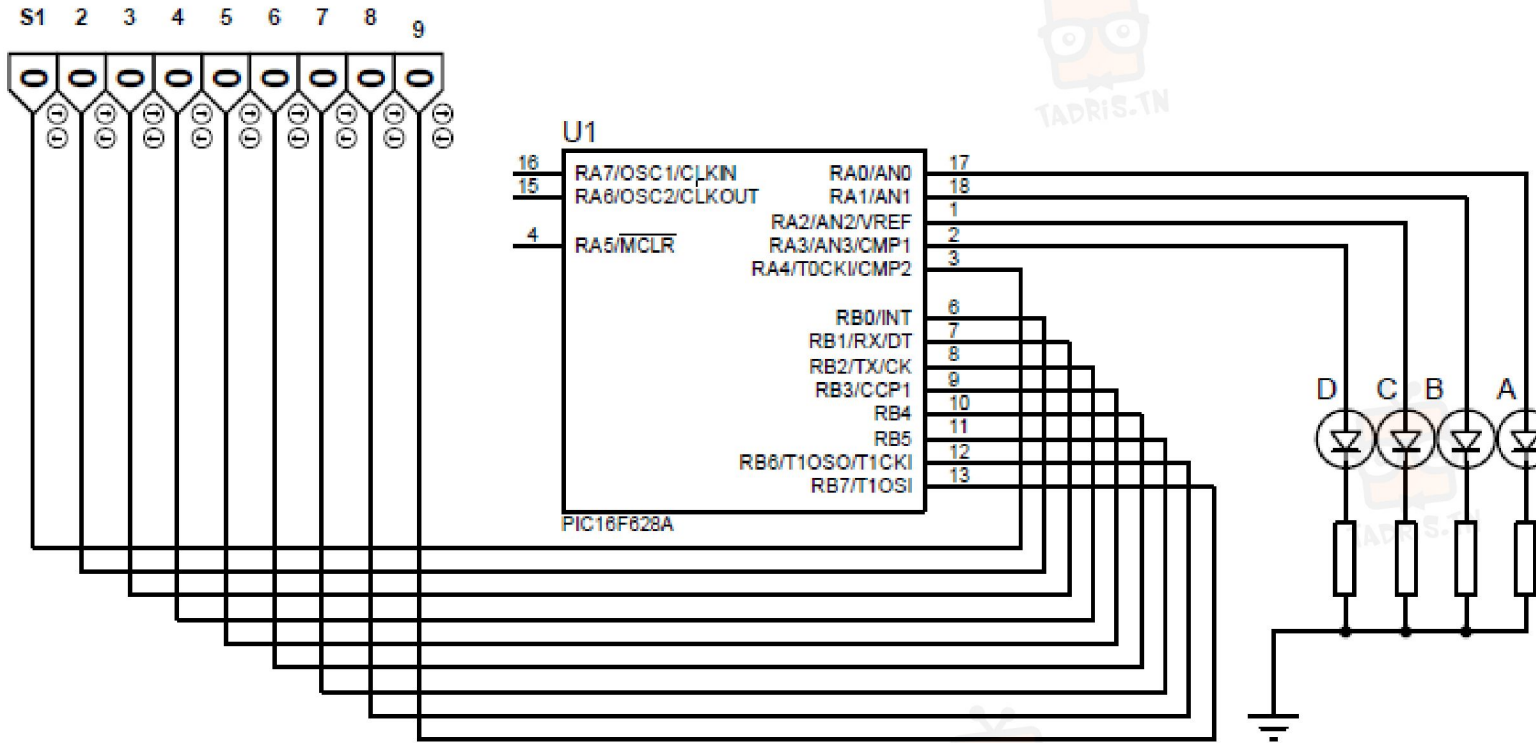


9	8	7	6	5	4	3	2	1	D	C	B	A

- 3- Si deux entrées sont activées en même temps que se passe il ?

.....

4- Solution programmée



Compléter le programme en mikroC

Programme

```
sbit S1 at RA4_bit;
```

```
..... S2 ;
```

```
.....
```

```
{
trisA = .....;
```

```
trisB = 0x.....;
CMCON =0x07;
```

```
.....;
```

```
.....
```

```
{
if (portb.b7) S2 = ... ;
```

```
else if (.....) S2 = ... ;
```

```
else if (.....) S2 = ... ;
```

```
else if (.....) S2 = ... ;
```

```
else if (.....) S2 = ... ;
```

```
else if (.....) S2 = ... ;
```

```
else if (.....) S2 = ... ;
```

```
else if (.....) S2 = ... ;
```

```
else if (.....) S2 = ... ;
```

```
else S2 = .....;
```

```
..... = S2; affichage sur le portA
```

```
.....
```

```
.....
```

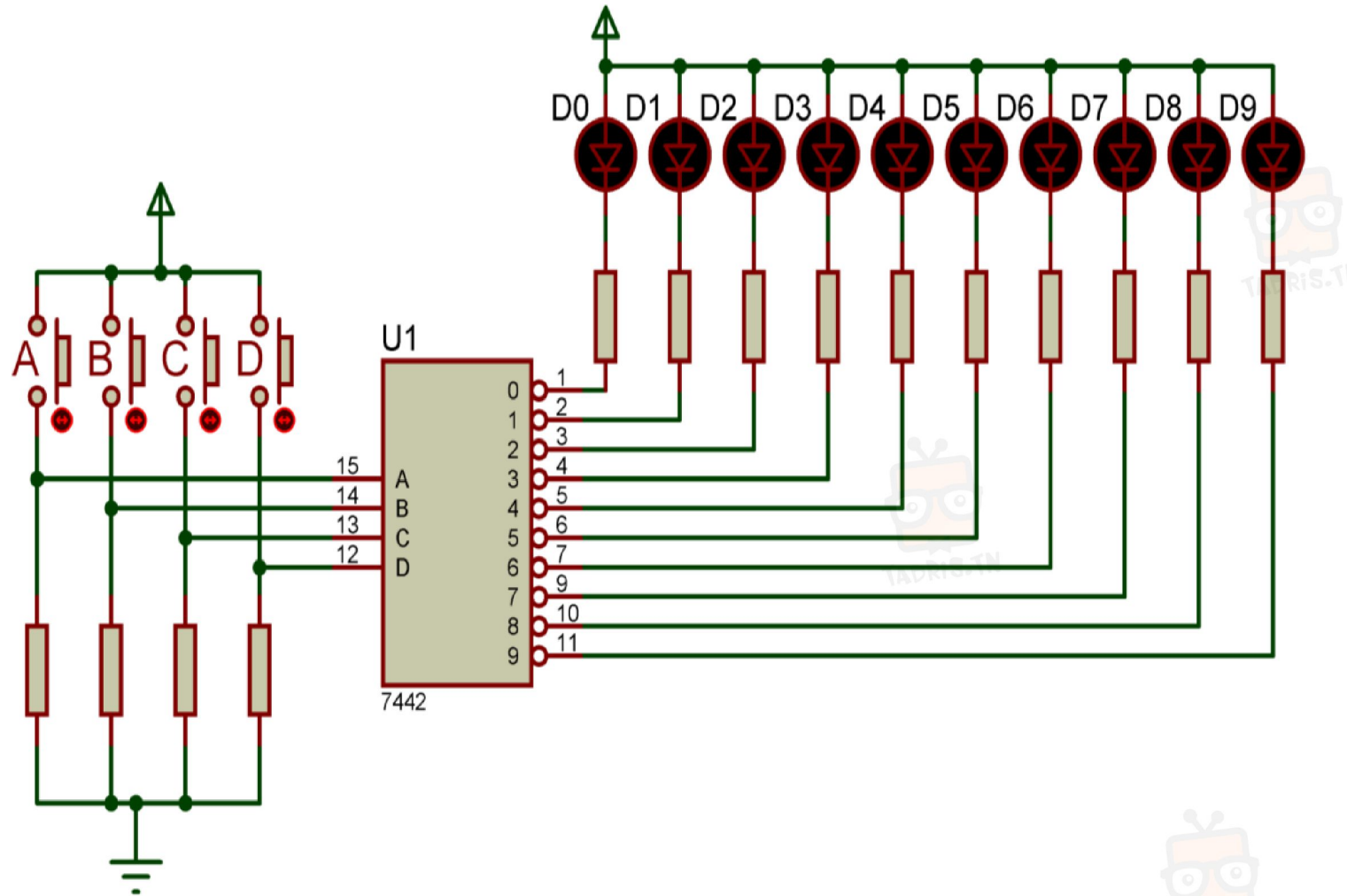


في دارك... إتهنوني على قرابت إصغارك



Exercice 2: Fonction décodage BCD/Décimal

1- Compléter le tableau en se référant au montage du circuit 7442.



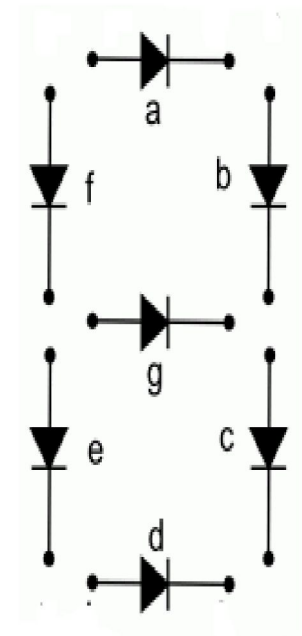
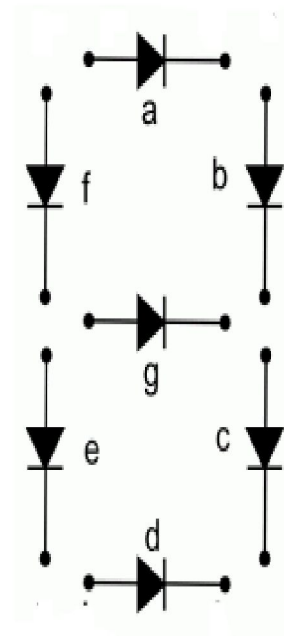
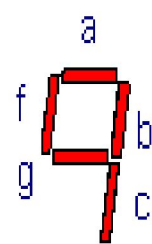
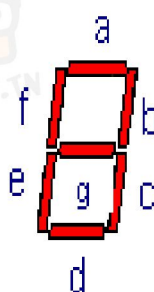
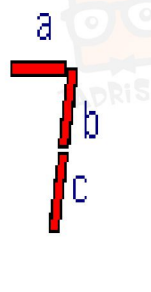
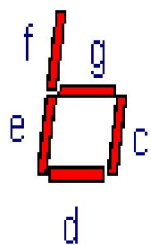
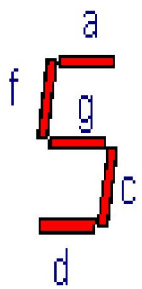
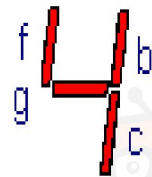
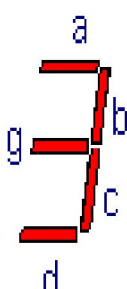
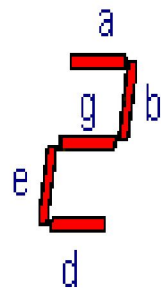
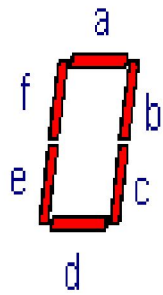
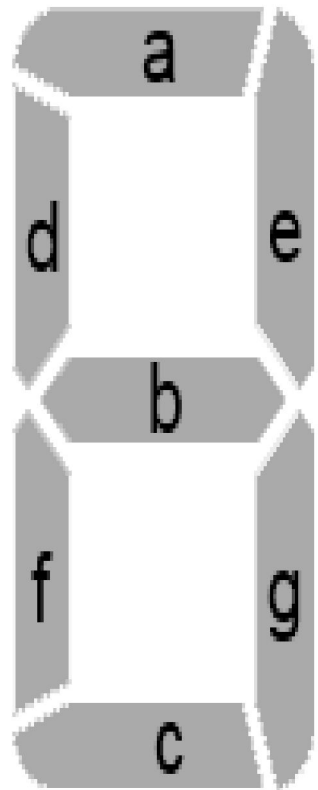
ENTREES				SORTIES
D	C	B	A	
0	0	0	0	
0	0	0	1	
0	0	1	0	
0	0	1	1	
0	1	0	0	
0	1	0	1	
0	1	1	0	
0	1	1	1	
1	0	0	0	
1	0	0	1	



في دارك... إتهنوني على قرابتك إصغارك



Afficheur à sept segments



في دارك... إتهنوني على قرابتك إصغارك



Exercice 3:

Identifier ce circuit :

.....

Tension commune :

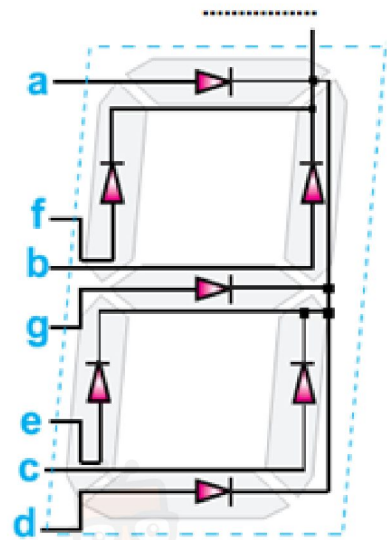
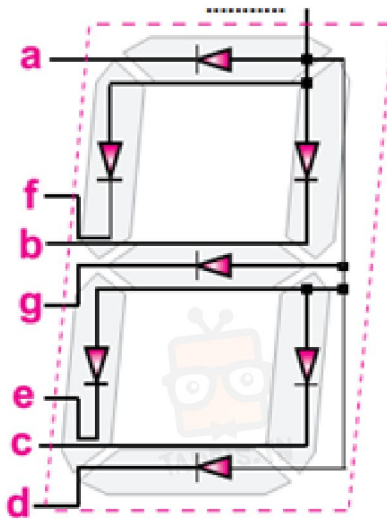
.....

Les segments sont actifs au niveau

.....

Ce circuit est commandé par :

.....



Identifier ce circuit :

.....

Tension commune :

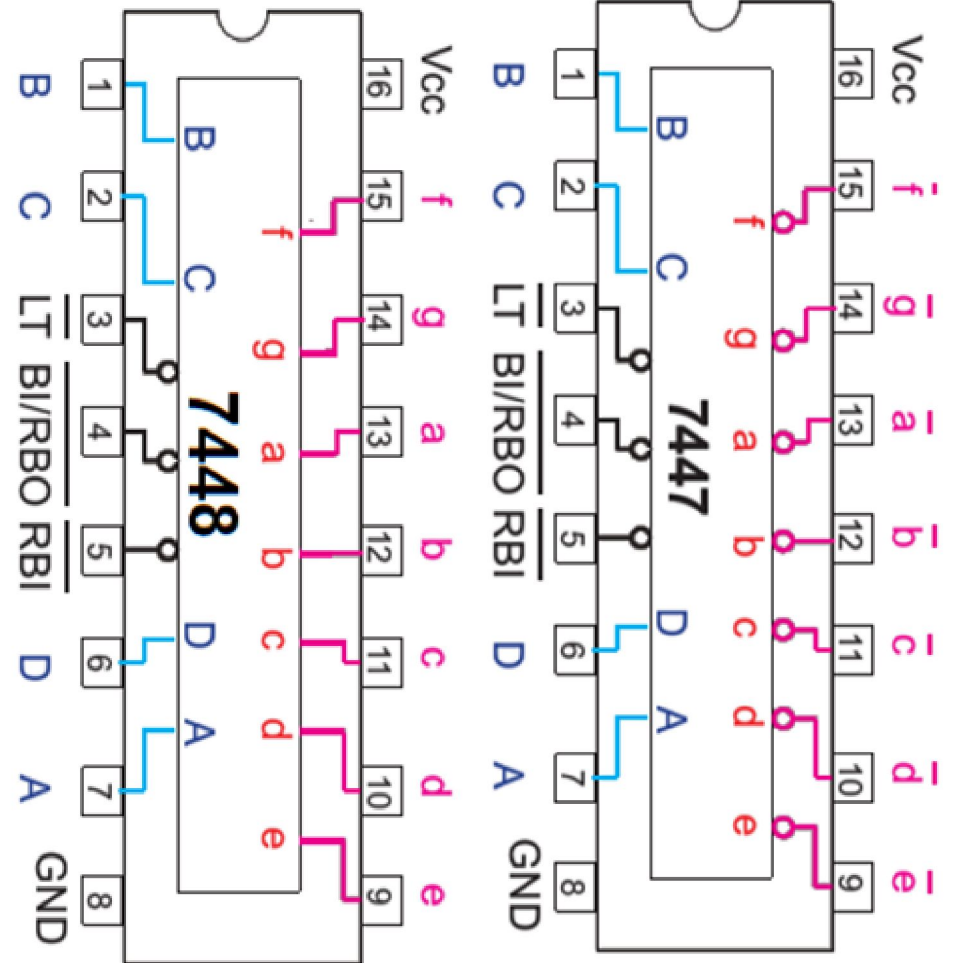
.....

Les segments sont actifs au niveau

.....

Ce circuit est commandé par :

.....



Exercice 4:

Fonction transcodage BCD/7 segments

L'affichage d'un résultat est matérialisé par des afficheurs 7 segments de façon à visualiser les 10 digits comme suit;

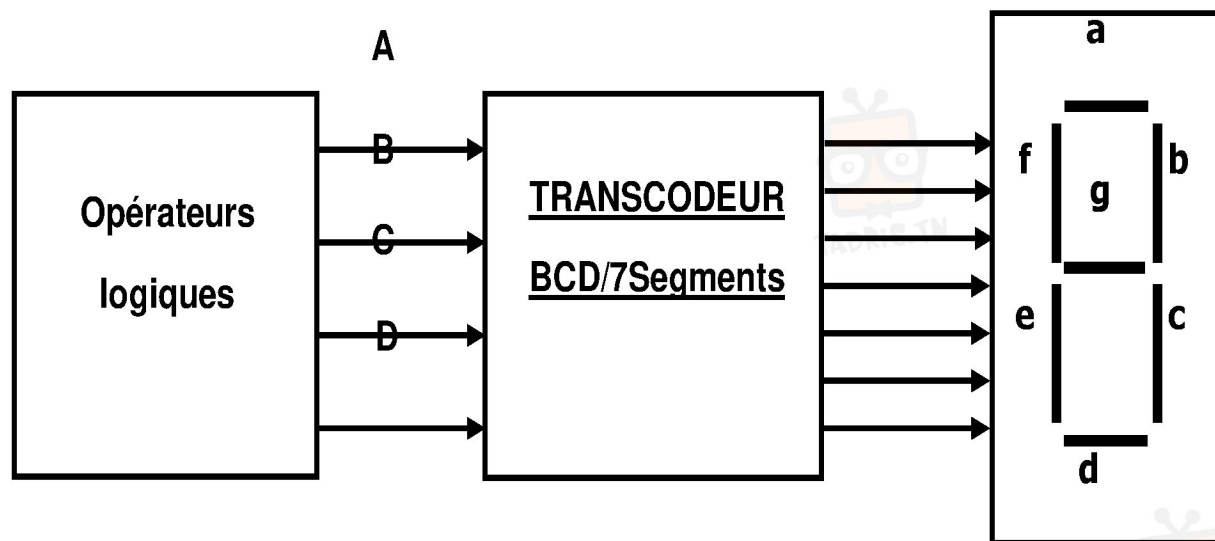
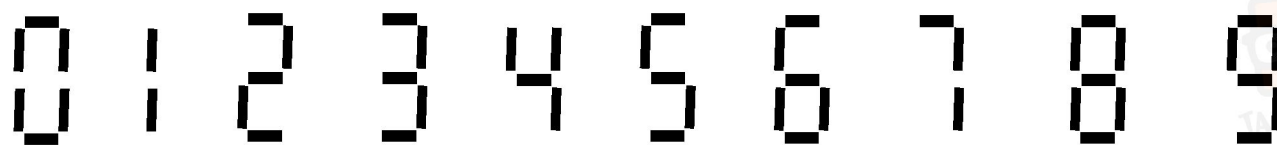
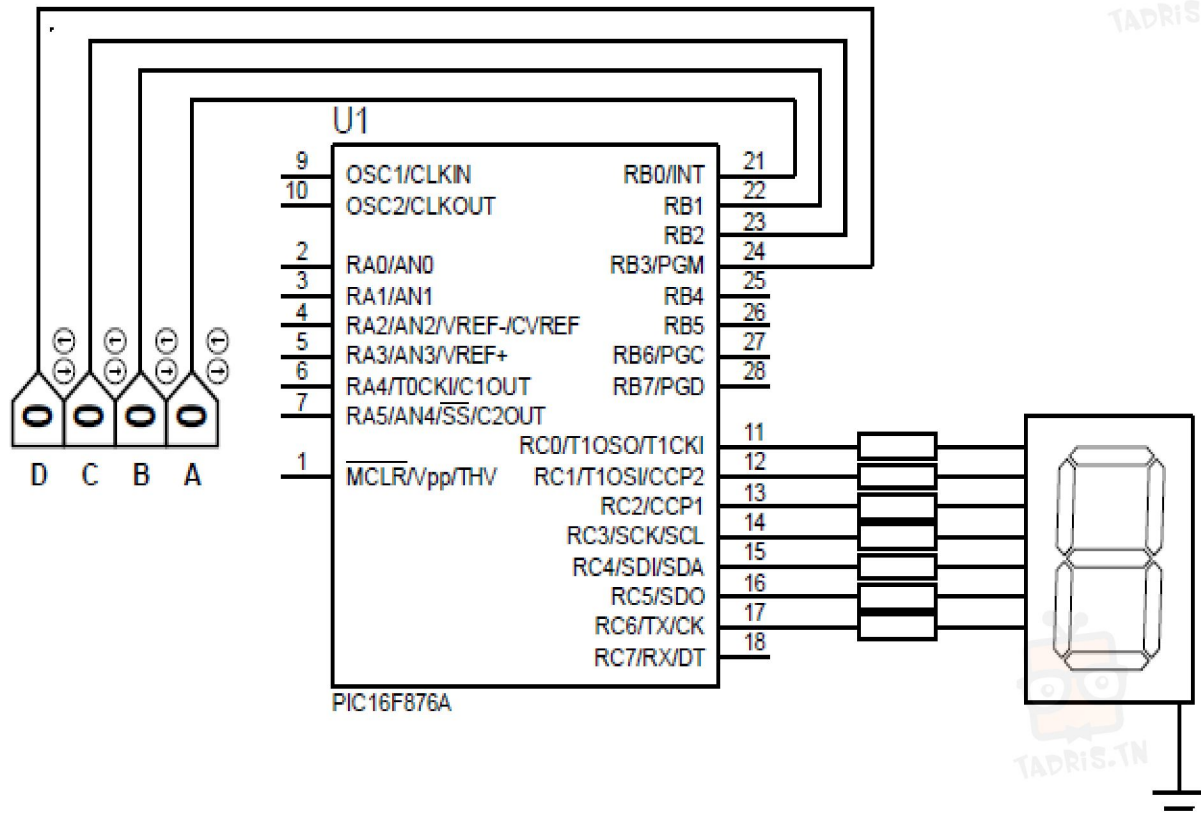


Table de vérité :

Nombres décimaux	Entrées				Sorties						
	D	C	B	A	g	f	e	d	c	b	a
0	0	0	0	0							
1	0	0	0	1							
2	0	0	1	0							
3	0	0	1	1							
4	0	1	0	0							
5	0	1	0	1							
6	0	1	1	0							
7	0	1	1	1							
8	1	0	0	0							
9	1	0	0	1							

Solution programmée



Programme

char i at portb ; // Variable d'entrée i reliée au port b
const afficheur[....] = //Tableau de 10 cases du type constantes:

```
{
0x....,
0x....,
0x....,
0x....,
0x....,
0x....,
0x....,
0x....,
0x....,
0x....,
}
```

```
..... // mot clé programme
..... //début
..... =0x.....; //configuration
..... =0x.....;
portc=.....; //initialisation
..... =.....; //initialisation
..... //boucle infinie
.....
.....//portc←
contenu du tableau
.....
.....
```



في دارك... إتهنوني على قرابت إصغارك

