



**The Islamic University of Gaza  
Computer Department  
Embedded System Lab**

**Homework\_1**

**Student name**

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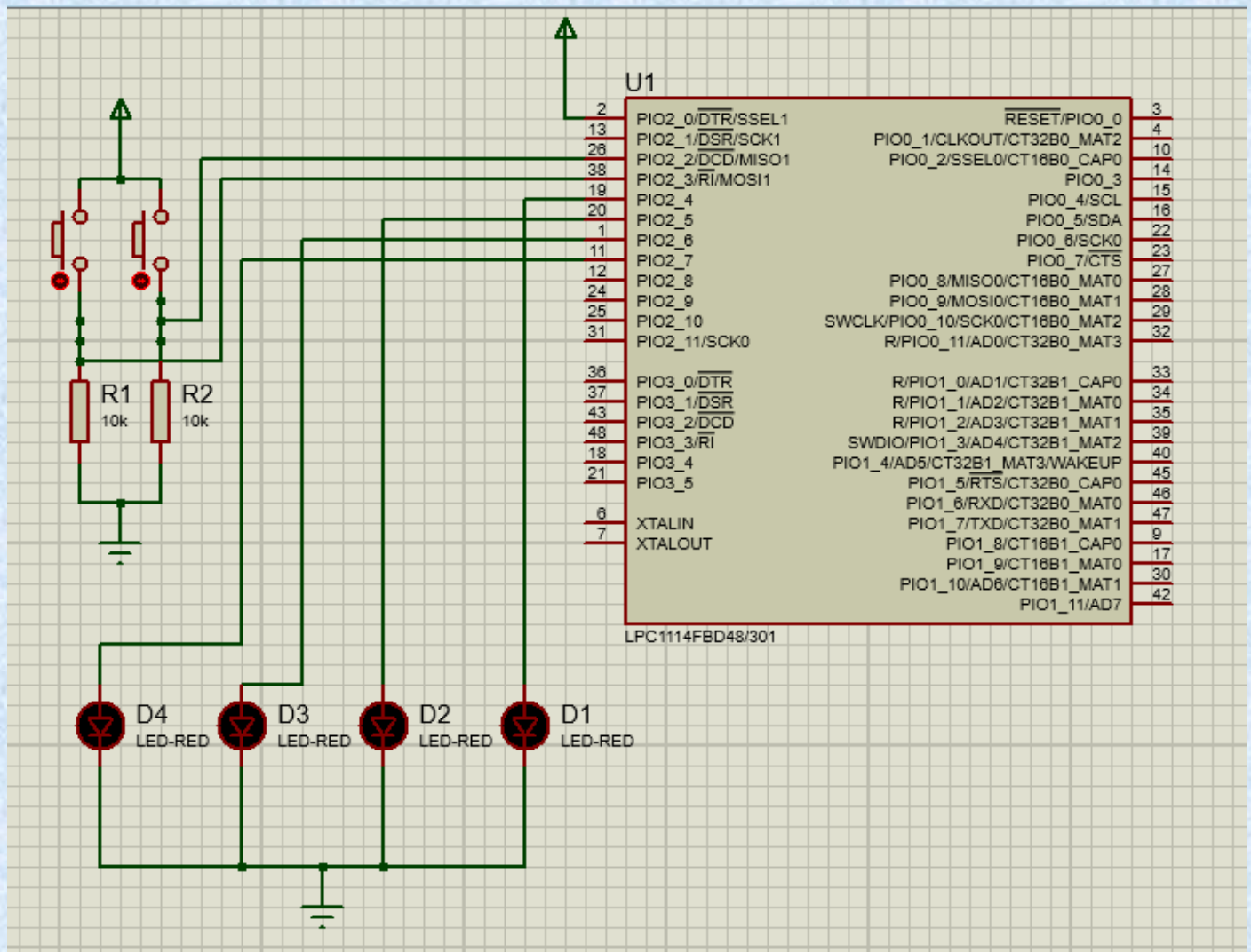
**Supervisor**

**Eng. Amal Abu Jasser**

**Date**

**12/11/2024**

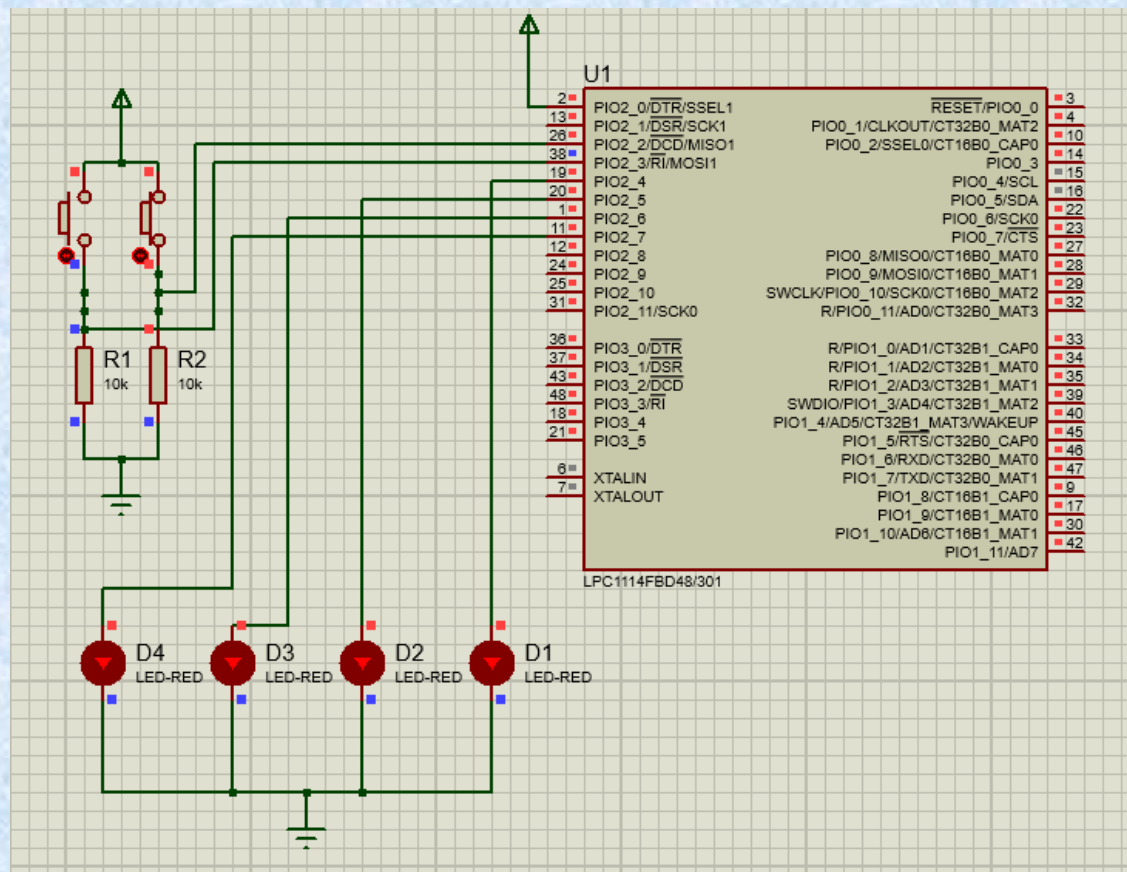
## Compmnents:



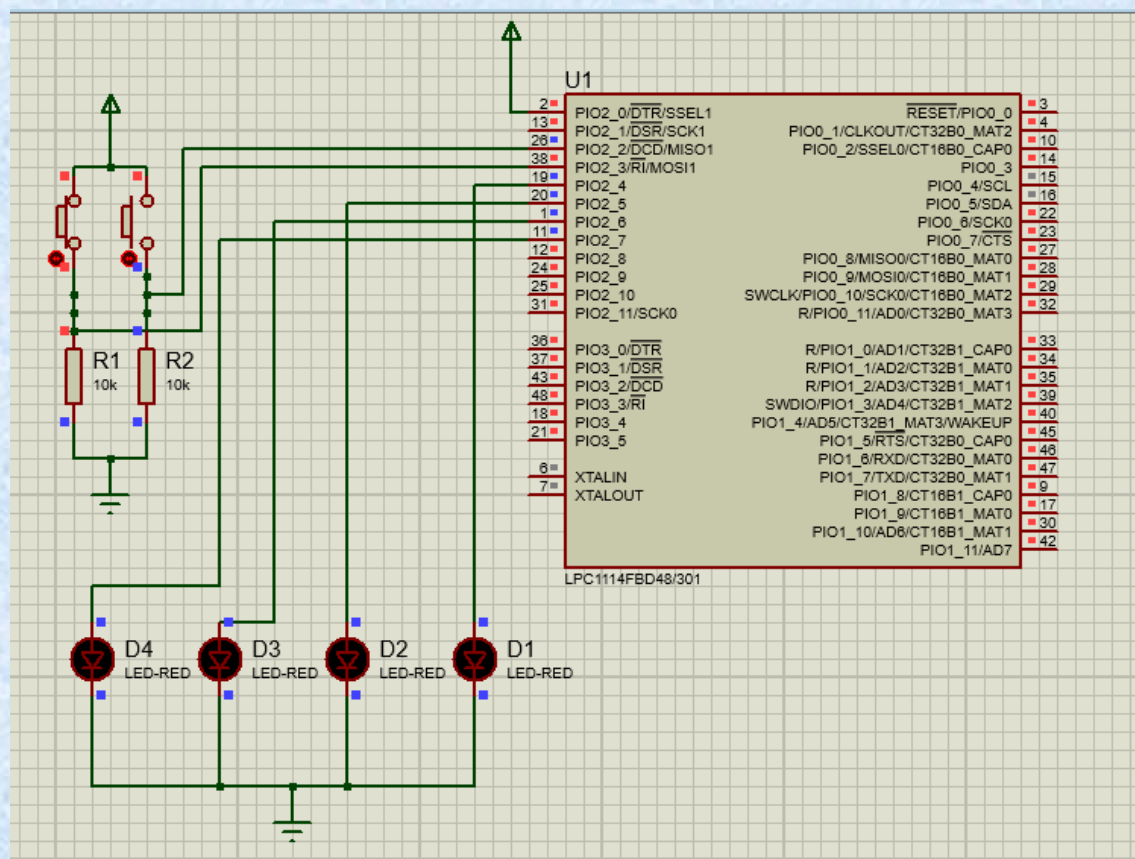
## Code:

```
main.c
1  #define GPIO2DIR *((volatile unsigned long*)0x50028000)
2  #define GPIO2DATA *((volatile unsigned long*)0x50023FFC)
3
4  int main(void) {
5      GPIO2DIR |= 0b11110000 ;
6      GPIO2DIR &= ~0b1100;
7      GPIO2DATA &= ~0b11110000 ;
8
9      while (1) {
10         if (GPIO2DATA & 0b100) {
11             GPIO2DATA |= 0b11111111 ;
12         }
13         if (GPIO2DATA & 0b1000) {
14             GPIO2DATA &= ~0b11110000 ;
15         }
16     }
17     return 0;
18 }
19
```

## Sample 1:



## Sample 2:



تم بحمد الله