REPUBLIC OF CAMEROON

Peace-Work-Fatherland

THE UNIVERSITY OF BAMENDA

THE COLLEGE OF TECHNOLOGY (COLTECH)

MICROPROCESSORS/MICROCONTROLLERS ASSIGNMENT: BLINKING LED's

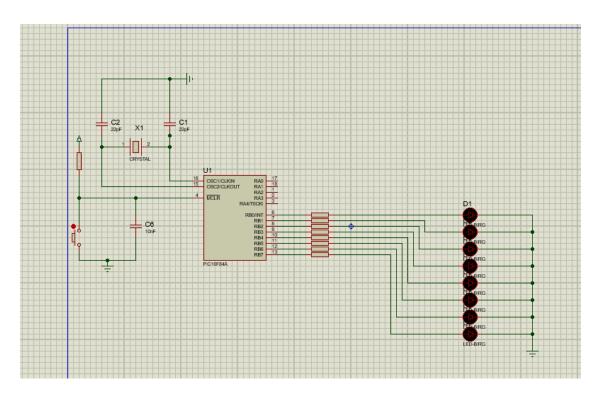
NAME: MBAH LESKY TAGWANG

MATRICULE: UBA21PB015 (Level 300)

Blinking A Led

CODE:

Diagram:



ASSIGNMENT 1:

Edit the above code such that when the leds of PORTA are ON, those of PORTB are OFF and vise versa. Delay is 500ms

CODE:

ASSIGNMENT 2:

Blink all LED's on PORTB 10 times, After that blink 4 LED's each for 10 times Then blink 10101010, 01010101 10 times

CODE:

```
    Start Page 
    □ blink_led.c
    □

        int i;
       pvoid main() {
              TRISB = 0x00;
              // blinking 10 times
              i = 1;
              while(i <= 10) {
                       PORTB = Obl11111111; // PORTB On
                        Delay_ms(500);
    10
                        PORTB = 0b000000000; // PORTB Off
                        Delay_ms(500);
                        i++;
              // blinking first 4 LED's 10 times
              i = 1;
              while(i <= 10) {
                       PORTB = Obl11110000; // first LED's on
                       Delay_ms(500);
                       PORTB = 0b000000000; // PORTB Off
    20
                       Delay_ms(500);
```

```
    Start Page 
    □ blink_led.c
    □

              // blinking first 4 LED's 10 times
              i = 1;
              while(i <= 10) {
                      PORTB = 0b11110000; // first LED's on
    19
                      Delay_ms(500);
    20
                      PORTB = 0b000000000; // PORTB Off
                      Delay_ms(500);
                      i++;
              // blinking last 4 LED's 10 times
              i = 1;
              while(i <= 10) {
                      PORTB = 0b00001111; // last LED's on
                      Delay_ms(500);
    30
                      PORTB = 0b000000000; // PORTB Off
                      Delay_ms(500);
                      i++;
<
```

```
🔐 Start Page 🔯 📄 blink_led.c 🔀
             // blinking 10101010 10 times
              i = 1;
             while(i <= 10) {
                     PORTB = 0b10101010; // last LED's on
                     Delay_ms(500);
    40
                     PORTB = 0b000000000; // PORTB Off
                     Delay_ms(500);
                     i++;
             // blinking 01010101 10 times
              i = 1;
             while(i <= 10) {
                      PORTB = 0b01010101; // last LED's on
                     Delay_ms(500);
    50
                     PORTB = 0b000000000; // PORTB Off
                     Delay_ms(500);
                     i++;
```