## Class 1: Class Program

```
#include <xc.h>
                                  // Include header file for PIC microcontroller
24
     #define XTAL FREQ 20000000 // Define crystal oscillator frequency as 20 MHz
25
26
     void main(void)
27
TRISD = 0x00;
                                  // Set all PORTD pins as output (0 = output, 1 = input)
29
                                  // Infinite loop
30
         while(1)
31
                                  // Set RD2 (3rd pin of PORTD) high (binary: 0000 0100)
32
             PORTD = 0x04;
                                  // Delay of 1000 milliseconds (1 second)
             delay ms(1000);
33
                                  // Set all PORTD pins low (binary: 0000 0000)
             PORTD = 0x00;
34
                                  // Delay of 1000 milliseconds (1 second)
             delay ms(1000);
35
36
37
```