Class 2 Class Program Pull Down Method

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      uint8 t val; // Declare an 8-bit unsigned variable to store PORTB value
     void main (void)
24
25 📮 {
26
          TRISB = 0x0F; // Configure lower nibble (RB0-RB3) as input, upper nibble (RB4-RB7) as output
          TRISC = 0x00; // Configure PORTC as output
27
          PORTB = 0x00; // Clear PORTB (Ensure initial value is 0)
PORTC = 0x00; // Clear PORTC (Ensure initial value is 0)
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          while(1) // Infinite loop to continuously check input and update output
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              val = PORTB; // Read the value from PORTB
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              switch (val) // Check the input value and take action accordingly
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                  case 0x10: // If RB4 (upper nibble) is HIGH
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                      PORTC = 0x02; // Set RC1 HIGH (0000 0010 in binary)
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                      break;
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                  case 0x20: // If RB5 is HIGH
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                      PORTC = 0x04; // Set RC2 HIGH (0000 0100 in binary)
44
                      break;
45
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                   case 0x40: // If RB6 is HIGH
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                       PORTC = 0x06; // Set RC1 and RC2 HIGH (0000 0110 in binary)
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                       break;
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                  case 0x80: // If RB7 is HIGH
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                       PORTC = 0x00; // Turn OFF all PORTC outputs
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54
                       break;
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                   }
                   default: // If none of the above cases match
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57
                       PORTC = 0x00; // Keep PORTC OFF
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          return; // This statement is never reached, as the while(1) loop runs indefinitely
63
64
```