```
int main (void){
char letter = 0, digit_num;
setup_HW;
I2C_Tx_any_segment_clear_all();
if (watch_dog_reset != 1)String_to_PC_Basic(message_1);
else String_to_PC_Basic(message_2);
while(1){digit_num=0;
while(digit_num < 8){</pre>
if(isCharavailable_Basic(1))
                                  //Wait up to 25mS for a key press. In the absence of one
{switch(letter = Char from PC Basic())
                                     //the program reverts back to "while(digit_num < 8){"</pre>
{case 'a': case 'A':
                                     //otherwise it continues and updates the display
case 'b': case 'B':
                                     //Program execution is not put on hold awaiting a keypress
case 'c': case 'C':
case 'd': case 'D':
case 'e': case 'E':
case 'f': case 'F':
case 'g': case 'G':
I2C_Tx_any_segment(letter, digit_num); break;
case 'x': case 'X': digit num += 1;break;
case 'z': SW_reset;break;
default: break;}}
_delay_ms(25);
wdr();
}}}
```