```c
int main (void){

char keypress = 0, digit_num=0;

setup_HW;

if(watch_dog_reset != 1)String_to_PC_Basic(message_1);
else String_to_PC_Basic(message_2);

while(1){                                          //Keep inputting data until x is received

while(!(isCharavailable_Basic(1)))wdr();
keypress = Char_from_PC_Basic();

switch(keypress){                                  //Test keypress
case '0': case '1': case '2':
case '3': case '4': case '5':
case '6': case '7':
digit_num = keypress - '0'; break;                 //If numeric save it as "digit_num".

case 'a': case 'b': case 'c':                      //If a letter illuminate the display
case 'd': case 'e': case 'f':
case 'g': I2C_Tx_any_segment(keypress, digit_num); break;

case 'x': {                                        //Press x to reset the display
I2C_Tx_any_segment_clear_all(); SW_reset;} break;

defaut: break;                                     //if any other key (AOK) execute a SW_reset.

}                                                  //Bottom of switch block return to top of "do-loop"
}
}
```