```
int main (void)
  { unsigned int sixteen_bit_PRN;
    unsigned int random_num[2];
 unsigned char PRN_counter=0;
  char display_string[8], num_string[8];
  char num length;
    int num_counter=0;
  setup_HW;
 PRN_counter = 0;
  random_num[0] = PRN_16bit_GEN (0, &PRN_counter);
sixteen_bit_PRN = random_num[0];
 while (1)
 { num_length = Bin_to_string_Local(random_num[num_counter%2], num_string);
    for(int n = 0; n <= num_length; n++){</pre>
    display_string[0] = num_string[num_length - n];
 I2C_Tx_8_byte_array(display_string);_delay_ms(100);
   for(int m = 0; m < 7; m++){</pre>
display_string[7-m] = display_string[7-m-1];}
Timer_T0_10mS_delay_x_m(2);}
random_num[(num_counter+1)%2] = new_random_number
 (&sixteen_bit_PRN, &PRN_counter);
num_counter += 1;}}
```