

```
int main (void)
{  setup_HW;

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

sei();
T1_clock_tick(37);

while (1) {
    Num_string_from_KBD_Local(Num_string);
    Num_string_to_PC_Basic(Num_string);
    Char_to_PC_Basic('\t');
    while(!(ready_to_compute));           //Wait here for best time to start computation
    ready_to_compute = 0;
    num_present = 0;
    Num = Askii_to_binary_Local(Num_string); //Convert number entered at the KBD to binary
    root_computation(Num, Num_string);      //Calculate the root, and save in "Num_string"
                                           //(see Int_to_String_Basic() in Local subroutines)

Num_string_to_PC_Basic(Num_string);        //Send result to the PC
    newline_Basic();
    Char_to_PC_Basic('?'); }}
```