```
int main (void)
    char num string[12];
    long number = 6076;
    long factor=0;
    char factor_counter;
  long prime_num = 1, next_prime;
 setup_HW;
if(watch_dog_reset == 1)String_to_PC_Basic("\r\n?");
else String_to_PC_Basic("Factors: Enter number\r\n");
number = Int_from_PC_Basic( num_string);
while(1){
next_prime = next_prime_number(prime_num);
while (!(number%next_prime))
{Int_to_PC_Basic(next_prime); Char_to_PC_Basic(' '); number /= next_prime;}
prime num = next prime;
factor += 1;
if(!(factor%50))
Char_to_PC_Basic('.');
if (number==1)break;}
SW_reset;}
```