```
int main (void){
 float x1, x2;
  float power;
char op;
  setup_HW_Arduino_IO;
if(!(watch_dog_reset))
{Serial.write(message_1);}
else {Serial.write("\r\nAgain\r\n"); watch_dog_reset = 0;}
x1 = fpn from IO();
while(switch_2_down);
I2C_FPN_to_display(x1);
Sc_Num_to_PC_A(x1,1,6 ,'\r');
while(1){
  while(switch_1_up);
op = 0;
I2C_Tx_any_segment_clear_all();;
while(switch 1 down)
\{op = op\%8;
I2C_Tx_any_segment('d', 7- op);
op += 1;
Timer_T0_10mS_delay_x_m(40);
I2C_Tx_any_segment_clear_all();}
switch(op){
case 1: case 2:
case 3:
         case 4:
  x2 = fpn from IO(); while(switch 2 down); break;
  case 5: x1 = pow(x1, 2);
                                break;
           x1 = pow(x1, 0.5);
 case 6:
                                break;
            x1 = 1.0/x1;
  case 7:
                                break;
 case 8:
            SW_reset;
                                break;}
switch(op){
case 1: x1 = x1 + x2; break;
case 2:
         x1 = x1 - x2; break;
case 3: x1 = x1 * x2; break;
         x1 = x1 / x2; break;
case 4:
Sc_Num_to_PC_A(x1,1,6 ,'\r');
I2C_FPN_to_display(x1);}
while(switch_1_up);
SW reset;}
```