```
#include "Main.h"
void main (void)
{
   int sensorHit = 1;
   int redBeaconStillOn = 1;
   int Range = 0;
   int currentTries = 3;
   PrintToScreen ("Test\n");
   freq=0; // 0=1khz (red), 1=10kHz(green beacon)
   ambient level = 100; // esed in 'move'
   slow_level = 3000; // used in 'move'
   stop level = 5000; // used in 'move'
   expose time = 3; // used in expose and read
   steer sensitivity = 20; // used in 'move'
   forward speed = 75; // forward speed, used in 'move'
   slow speed = 35; // slow speed, used in 'move'
   spin speed = 80; // spin speed (for searching mode), used in 'move'
   SetDigitalOutput (10, freq); // turn to 1kHz (red beacon)
   while (sensorHit == 1)
   {
       sensorHit = GetDigitalInput (4);
       Read_PD();
       find_max();
       move();
   }
   SetMotor (1,0);
   SetMotor ( 10 , 0 );
   while (redBeaconStillOn == 1)
       SetMotor (2, 60);
       Wait (600);
       SetMotor (2,0);
       Wait (600);
       SetMotor (2, -40);
       Wait (800);
       SetMotor (2,0);
       Wait (250);
       Read PD();
       find max();
       if (PD sum < ambient level)
       {
           redBeaconStillOn = 0;
       }
       else
           currentTries--;
       if ( currentTries <= 0 )
           currentTries = 3;
           SetMotor (1, -85);
           SetMotor (10, 100);
           Wait (800);
           sensorHit = 1;
           while ( sensorHit == 1 )
```

Main 2

```
{
          sensorHit = GetDigitalInput (4);
          Read_PD();
          find_max();
          move();
       SetMotor (1,0);
       SetMotor (10,0);
   }
}
SetMotor (1, -85);
SetMotor (10, 100);
Wait (1000);
sensorHit = 1;
freq = 1;
SetDigitalOutput ( 10 , freq ); // turn to 1kHz (red beacon)
while ( sensorHit == 1 )
{
   sensorHit = GetDigitalInput (4);
   slow_speed = 50;
   Read PD();
   find_max();
   move();
}
SetMotor (1,0);
SetMotor (10,0);
SetMotor (2, 45);
Wait (700);
SetMotor (2,0);
Wait (200);
StartUltrasonic (2,1);
while (1==1)
{
   Range = GetUltrasonic (2, 1);
   if ( Range <= 20 )
       SetMotor (1, 60);
       SetMotor (10,60);
       Wait (1250);
   }
   else
   {
       SetMotor (1, -110);
       SetMotor ( 10 , 127 );
}
```

}