ภาคผนวก ง.

โปรแกรมของหุ่นยนต์(ภาคส่ง)

```c
#include <18f458.h>
#fuses H4, NOWDT, NOLVP, NOBROWNOUT
#use delay(clock=40000000)
#use rs232(baud=9600, xmit=PIN_C6, rcv=PIN_C7)        // Jumpers: 8 to 11, 7 to 1

main()
{
  int16 value[4];                                      //value from analog
  int i;                                               //for loop
  setup_port_a(ALL_ANALOG);
  setup_adc(ADC_CLOCK_INTERNAL);
  output_c(0b00000000);
  while (true)                                          //always run
  {
  for (i=0;i<=3;i++)
  {
    set_adc_channel(i);
    delay_us(10);
    value[i] = read_adc();                             //read adc 4 ports
  }
  if (value[1] > 250)
  printf("w");                                          //Forward
  else if (value[1] < 15)
  printf("s");                                          //Backward
  else if (value[0] > 250)
  printf("d");                                          //left
  else if (value[0] < 15)
  printf("a");                                          //Right
  else if (value[2] > 250)
  printf("f");                                          //Tilt left camera
  else if (value[2] < 15)
  printf("h");                                          //Tilt right camera
  else if (value[3] > 250)
  printf("t");                                          //Pan up camera
  else if (value[3] < 15)
  printf("g");                                          //Pan down camera
  else if (input(pin_B0))
  {
  output_high(pin_c0);
  printf("z");                                          //Open camera 2
  }
  else if (input(pin_B1))
  {
  output_low(pin_c0);
  printf("x");                                          //Close camera 2
  }
```

```
    else if (input(pin_B2))
    {
    output_high(pin_c1);
    printf("c");                              //Open camera 1
    }
    else if (input(pin_B3))
    {
    output_low(pin_c1);
    printf("v");                              //Close camera 1
    }
    else if (input(pin_D0))
    {
    output_high(pin_c2);
    printf("o");                              //Open lamp 2
    }
    else if (input(pin_D1))
    {
    output_low(pin_c2);
    printf("l");                              //Close lamp 2
    }
    else if (input(pin_D2))
    {
    output_high(pin_c3);
    printf("b");                              //Open lamp 1
    }
    else if (input(pin_D3))
    {
    output_low(pin_c3);
    printf("n");                              //Close lamp 1
    }
    else if (input(pin_D4))
    printf("u");                              //Up tire
    else if (input(pin_D5))
    printf("j");                              //Down tire
    else if (input(pin_D6))
    printf("i");                              //Hold tire
    else if (input(pin_D7))
    printf("k");                              //Release tire
    else
    printf("q");
    delay_ms(10);
    }
}
```