PET FEEDER CODE:

#include <p18f46k22.h>

#include <stdio.h>

#include <string.h>

#include <stdlib.h>

#include "ProjectMain.h"

#include "serial\_codes.h"

#include "ADC.H"

#include "PinAllocation.h"

#include "LCD.h"

#include "delay.h"

#include "timers.h"

#include "wifimodule.h"

unsigned char guchValueFromUART1;

unsigned int gunLMData;

unsigned int gunLMData1;

unsigned char garruchTempLCDDisplay[17];

unsigned char guchLCDLine1String[17],guchLCDLine2String[17];

unsigned char uchBuffDisplay[] = "APSIS SOLUTIONS\n\r";

#pragma udata udata3

unsigned char uchRecieve150Ch[150],i = 0;

unsigned int guchDataTowebsite;

extern unsigned int gunField1Value,gunField2Value,gunField3Value,gunField4Value,gunField5Value,gunField6Value,gunField7Value,gunField8Value;

unsigned long ulVoltageInVolts;

extern unsigned char guchField5Value;

extern unsigned int gunDataFromFields;

unsigned char guchSendingData[10]= "TESTED OK";

unsigned int gunValueFromADC;

unsigned char gunBTData[15]={"BTSendingData"};

void fnMotor\_1\_Stop(void)

{

MOTOR\_1\_COIL\_A = 0;

MOTOR\_1\_COIL\_B = 0;

}

void fnMotor\_1\_Clk(void)

{

MOTOR\_1\_COIL\_A = 0;

MOTOR\_1\_COIL\_B = 1;

EN\_1 =0;

}

void fnMotor\_1\_AntiClk(void)

{

MOTOR\_1\_COIL\_A = 1;

MOTOR\_1\_COIL\_B = 0;

EN\_1 =0;

}

void fnMain\_Project()

{

unsigned int unTemperatureValue;

unsigned int unADCvalueSmokeSensor =0;

unsigned int unDataFromThingspeakforDeviceControl = 0;

unsigned int unDataFromField1,unDataFromField2;

unsigned char uchCommandForRobot;

unsigned char a=10,b=5,c=0;

unsigned char uchData;

unsigned char uchData1;

unsigned char uchRecieve150Ch[10],i = 0;

unsigned char uchtemp;

unsigned char uchTempvalue[];

unsigned int unADCvalue1=0;

unsigned int unADCvalue2=0;

unsigned int unADCvalue3=0;

unsigned int unADCvalue4=0;

ANS\_MOTOR\_1\_COIL\_A = SET\_DIGITAL;

ANS\_MOTOR\_1\_COIL\_B = SET\_DIGITAL;

ANS\_EN\_1=SET\_DIGITAL;

DIR\_MOTOR\_1\_COIL\_A = SET\_OUTPUT;

DIR\_MOTOR\_1\_COIL\_B = SET\_OUTPUT;

DIR\_EN\_1=SET\_OUTPUT;

while(1)

{

guchValueFromUART1 = uchfnReceive\_Serial(UART1);

printf("%c %d 0x%X\n",guchValueFromUART1,guchValueFromUART1,guchValueFromUART1);

if(guchValueFromUART1 == 'F')

{

fnMotor\_1\_Clk();

}

else if(guchValueFromUART1 == 'B')

{

fnMotor\_1\_AntiClk();

}

else

{

fnMotor\_1\_Stop();

}

}