PROJECT NAME: Glove for Deaf

TEAM MEMBERS:

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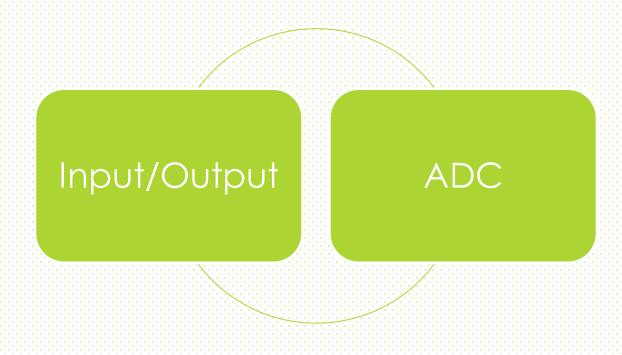
About the project

This project is made for Deaf use the sign language to be in touch with surrounding people, unfortunately, the people must learn or know the sign language to connect with them.

Tools

MICROCONTROLLER 5 POTENTIAL METER LCD (ATmeaga32)

DRIVERS



Header Folder

ADC.h

config.h

I/O.h

LCD8bit.h

Loop.h

Taskprint.h

Source Folder

ADC.c

Main.c

I/O.c

LCD8bit.c

Loop.c

Taskprint.c

Drive: Input/Output(Functions)

Functions (1)

PORT LEVEL

- void setPortDir (int portNum , int state);
- void setPortData (int portNum, int data);
- void togglePortData(int portNum);

Drive: Input/Output(Functions)

Functions



PIN LEVEL

- void setPinDir (int portNum , int pinNum, int state);
 void setPinData (int portNum , int pinNum int dat
- void setPinData (int portNum, int pinNum, int data);
- void togglePinData(int portnum ,int pinNum);

Drive: ADC (Functions)

```
void ADC_init( int Reference ,int prescaler);

void ADC_channel(int _channel);

void ADC_start_conversion();

int ADC_read();

void init_Interrupt_ADC();
```

LCD (Functions)

```
void lcd_init();
  void lcd_write(char data);
    void lcd_write_str(char * str);
     void lcd_write_num(int num);
    void lcd_write_cmd(char cmd);
  void lcd_enabel();
void lcd_clear();
```

LOOP (Functions)

void ADC_Channel_Increment();

void ADC_Save_Read();

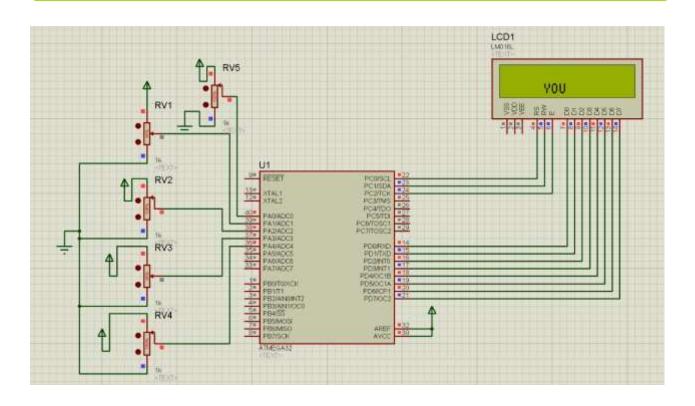
void Operations_Move_Hand();

TASKPRINT (Functions)

```
void Write_you();
   void Write_I_M_Watching();
    void Write_REALLY_I_LOVE_YOU();
     void Write_I_LOVE_YOU();
    void Write_THIS_IS_TERRIBLE();
   void Write_I_WISH_YOU_A_HAPPY_LIFE();
void Write_EXCELLENT_WORK();
```

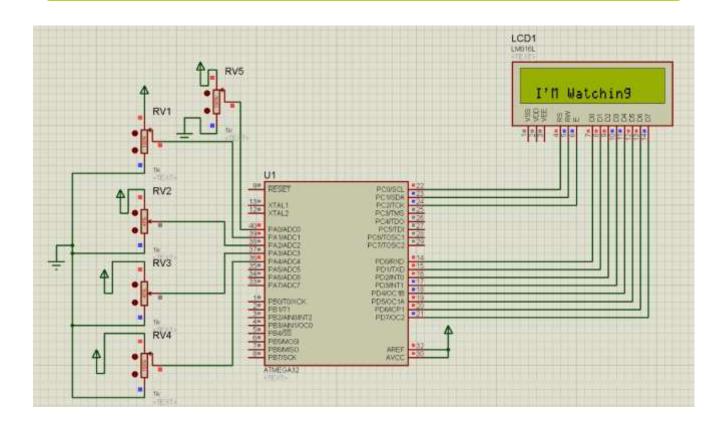
void Write_you();

P1=100% P2=45% P3=100% P4=45% P5=100%



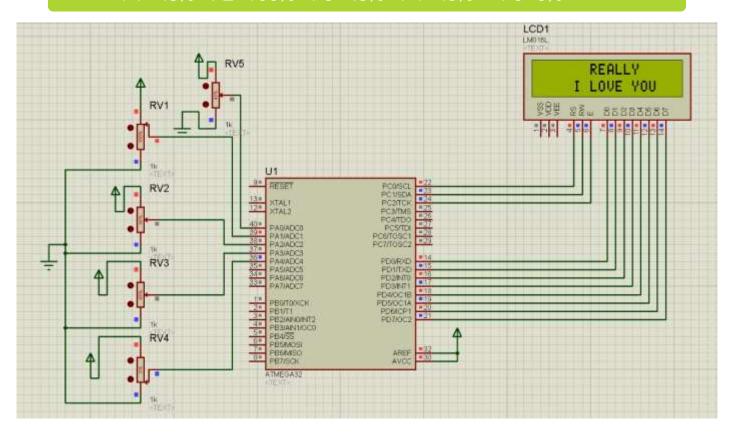
void Write_I_M_Watching();

P1=100% P2=100% P3=45% P4=45% P5=100%



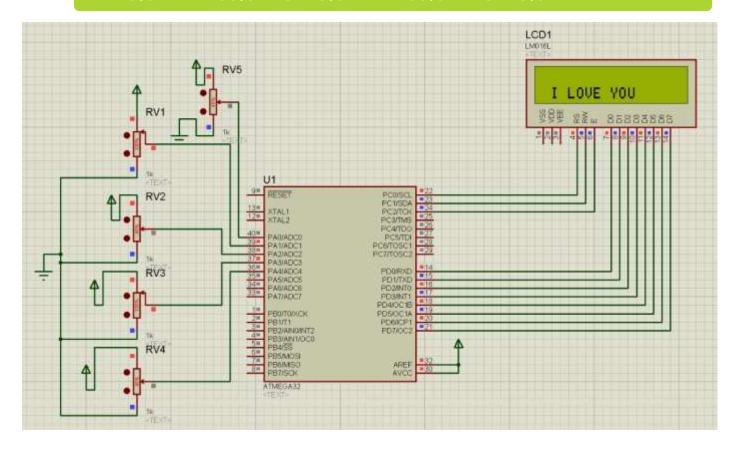
void Write_REALLY_I_LOVE_YOU();

P1=45% P2=100% P3=45% P4=45% P5=0%



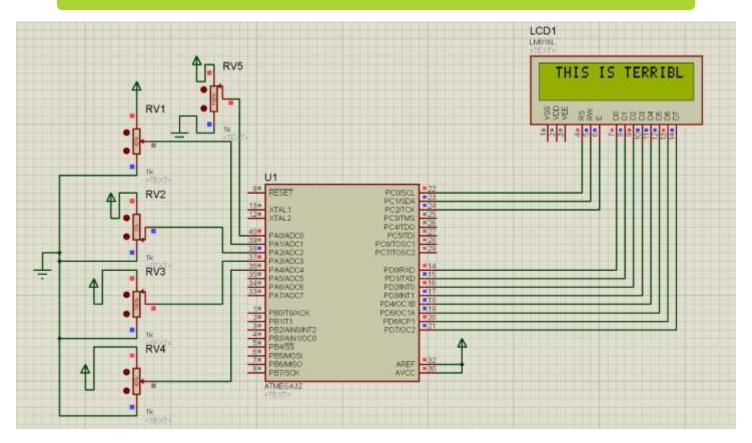
void Write_I_LOVE_YOU();

P1=45% P2=100% P3=45% P4=100% P5=45%



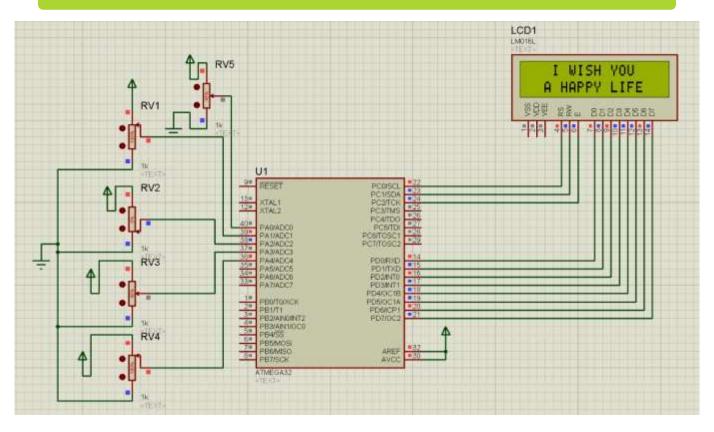
void Write_THIS_IS_TERRIBLE();

P1=100% P2=45% P3=0% P4=100% P5=45%



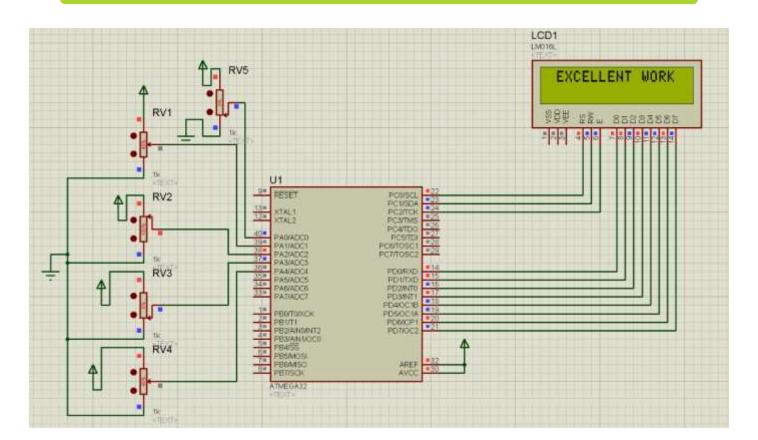
void Write_I_WISH_YOU_A_HAPPY_LIFE();

P1=45% P2=100% P3=0% P4=45% P5=100%

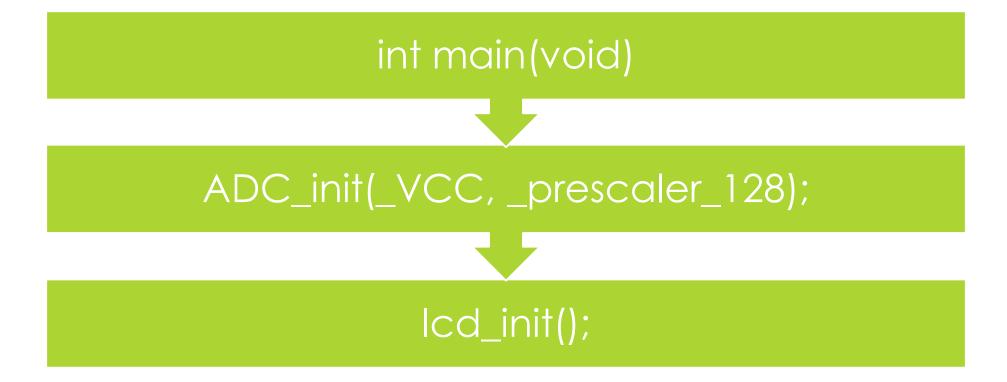


void Write_EXCELLENT_WORK();

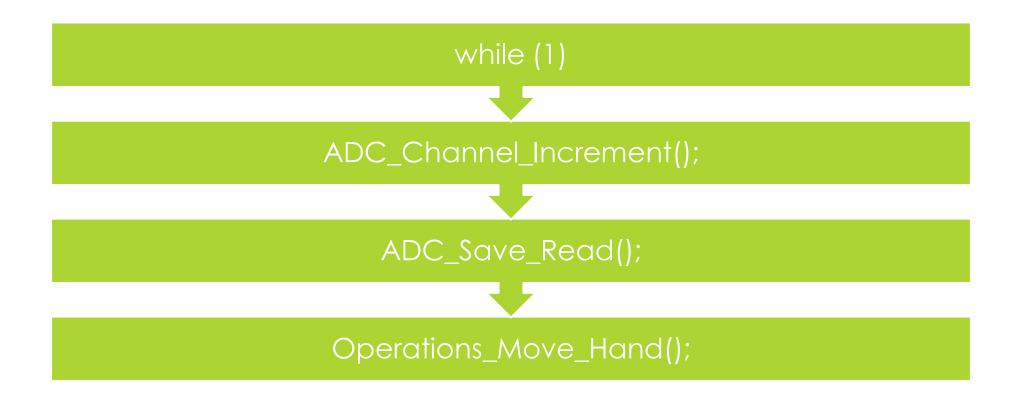
P1=0% P2=45% P3=100% P4=0% P5=45%



MAIN.C (Code)



MAIN.C (Code)



SIMULATION

