

[illegible]

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};
void delay(unsigned int x,int y)
{
    unsigned int i,j;
    for(i=0;i<x;i++)
    for(j=0;j<y;j++);
}
void lcd_display(unsigned int data)
{
    IO0CLR=(RS|EN|LCD);

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IO0SET=(data <<8);
IO0SET=RS;
IO0SET=EN;
delay(10,10);
IO0CLR=EN;
delay(10,10);
}
void cmd(unsigned char cmd)
{
IO0CLR=(RS|EN|LCD);
IO0SET=(cmd<<8);
IO0CLR=RS;
IO0SET=EN;
delay(10,10);
IO0CLR=EN;
delay(10,10);
}
void lcd_ini()
{
IO0SET=RST;
IO0DIR=0X003FFF00;
cmd(0X3E); //Display Off (Display on off instruction 0011 1110)
cmd(0X40); // Set Y address i.e. (column=0)
cmd(0Xb8); // Set X address i.e. (Page=0)
cmd(0X3F); //Display ON (Display on off instruction 0011 1111)
}
void lcd_str(unsigned char *str)
{
while(*str!='\0')
{
lcd_display(*str);
str++;
}
}
void img(const unsigned char *ip) // function to display image on lcd
{
int Page;
int Column;
for ( Page = 0; Page < 8; Page++)
{
IO0CLR=CS1; //left halve portion is selected
IO0SET=CS2;
cmd(0x40); //Set Y address(column=0)increased by 1 autdiemsatically by read or write
operations
cmd(0xb8 | Page); //Increment page address (0xb8 is address of page 0)
for ( Column = 0; Column < 128; Column++)
{
if (Column == 64)

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{
IO0SET=CS1; // right halve portion is selected
IO0CLR=CS2;;
cmd(0x40); //Set Y address(column=0)
cmd(0xb8 | Page); //Increment page address
}
lcd_display(*ip++);
}
}
}
int main()
{
lcd_ini(); // initialization of grafical lcd
img(diems); // loading picture on grafical lcd
while(1); // infinite loop
return 0;
}

```