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Section: 07
Group No. 5

```
#include"tishitu_root.h"
```

```
void main(void)  
{
```

```
    unsigned int read=0;
```

```
    unsigned int c=1;
```

```
        P0_0=0x00;
```

```
        P0_1=0x00;
```

```
    init_lcd();
```

```
    loading(100);
```

```
    secondline();
```

```
        display("Auto water tank controller");
```

```
        msdelay(2000);
```

```
    while(1)
```

```
{
```

```
    if((P2_3==0)&&(P2_0==1))
```

```
{
```

```
    P0_0=0;
```

```
    P0_1=1;
```

```
    firstline();
```

```
    display("motor off ");
```

```
    secondline();
```

```
    display("alarm on");
```

```
msdelay(1000);
}
if((P2_3==0)&&(P2_0==0))
{P0_0=0;
P0_1=1;
firstline();
display("motor off ");
secondline();
display("alarm on");
msdelay(1000);
}
{
if(c==1)

if((P2_3==1)&&(P2_2==1)&&(P2_1==1)&&(P2_0==1)&&(c==1))
{P0_0=0;
P0_1=0;
firstline();
display("motor off ");
secondline();
display("alarm off");
msdelay(1000);

}
if((P2_3==1)&&(P2_2==1)&&(P2_1==1)&&(P2_0==0)&&(c==1))
{P0_0=1;
P0_1=0;
firstline();
display("motor on ");
secondline();
display("alarm off");
msdelay(1000);
```

```
}  
if((P2_3==1)&&(P2_2==0)&&(P2_1==1)&&(P2_0==1)&&(c==1))  
{P0_0=0;  
P0_1=1;  
firstline();  
display("motor off ");  
secondline();  
display("alarm on");  
msdelay(1000);
```

```
}  
if((P2_3==1)&&(P2_2==0)&&(P2_1==1)&&(P2_0==0)&&(c==1))  
{P0_0=0;  
P0_1=1;  
firstline();  
display("motor off ");  
secondline();  
display("alarm on");  
msdelay(1000);
```

```
}  
if((P2_3==1)&&(P2_2==1)&&(P2_1==0)&&(P2_0==1)&&(c==1))  
{P0_0=0;  
P0_1=0;  
firstline();  
display("motor off ");  
secondline();  
display("alarm off");  
msdelay(1000);
```

```
}  
if((P2_3==1)&&(P2_2==1)&&(P2_1==0)&&(P2_0==0)&&(c==1))  
{P0_0=1;
```

```
P0_1=0;
  firstline();
  display("motor on ");
  secondline();
  display("alarm off");
  msdelay(1000);

}
if(P2_2==0)
{c=0;}
}
if(c==0)
{
  if((P2_3==1)&&(P2_2==0)&&(P2_1==0)&&(P2_0==1)&&(c==0))
  {P0_0=0;
  P0_1=0;
  firstline();
  display("motor off ");
  secondline();
  display("alarm off");
  msdelay(1000);

}
  if((P2_3==1)&&(P2_2==0)&&(P2_1==0)&&(P2_0==0)&&(c==0))
  {P0_0=0;
  P0_1=0;
  firstline();
  display("motor off ");
  secondline();
  display("alarm off");
  msdelay(1000);

}
}
```

```
if((P2_3==1)&&(P2_2==1)&&(P2_1==0)&&(P2_0==1)&&(c==0))
{P0_0=0;
P0_1=0;
firstline();
display("motor off ");
secondline();
display("alarm off");
msdelay(1000);

}
if((P2_3==1)&&(P2_2==1)&&(P2_1==0)&&(P2_0==0)&&(c==0))
{P0_0=0;
P0_1=0;
firstline();
display("motor off ");
secondline();
display("alarm off");
msdelay(1000);

}
if(P2_1==1)
c=1;
}
}
}
```