```
#include <reg51.h>



//---------- GENERATE SQUARE WAVE----------------------------//


void main ()

{

        P1 = 0X00; //CONVERT PORT P1 AS OUTPUT


        while(1)

        {


         P1 = 0XFF;

        my_delay();

         P1 = 0X00;

        my_delay();

        }

}




  void my_delay()

          {

          int i;

          for(i=0;i<10000;i++);
```

```
        }
```

```
#include <REG51.h>

//---------- GENERATE TRAINGULAR WAVE-----------------------------//

void delay_ramp(unsigned int time)
{
  unsigned int i,j;
  for(i=time;i>0;i--)
  {
        for(j=0;j<10;j++);
  }

}

void send_dac(unsigned int dat)
{
        P1 = dat;
}
```

```
void main(void)
{
 unsigned int a,state=0xff;

  while(1)
  {
          // rising ramp edge
           for(a=0x0;a<0xFF;a++)
           {
                   send_dac(a);
                   delay_ramp(1);
           }
          // falling ramp edge
           for(a=0xFF;a>0;a--)
           {
                   send_dac(a);
                   delay_ramp(1);
           }
          }
}
```