STEPPER MOTOR

```
#include<stdio.h>
#include<LPC21xx.h>

Void clock_wise(void);
Void anti_clock_wise(void);

Unsigned long int var1,var2;
Unsigned int i=0,j=0,k=0;

Int main()
{
   PINSEL0 = 0x00FFFFFF;
   IO0DIR = 0x0000F000;

   While(1)
   {
      For(j=0;j<50;j++)
           Clock_wise();
      For(k=0;k<65000;k++);

      For(j=0;j<50;j++)
           Anti_clock_wise();
      For(k=0;k<56000;k++);
   }
}
```

```
Void clock_wise(void)
{
   Var1 = 0x00000800;
   For(i=0;i<=3; i++)
   {
      Var1 = var1 << 1;
      Var2 = ~var1;
      Var2 = var2 & 0x0000f000;
      IO0PIN = ~var2;
      For(k=0;k<3000;k++);
   }
}

Void anti_clock_wise(void)
{
   Var1 = 0x00010000;
   For(i=0;i<=3; i++)
   {
      Var1 = var1 >> 1;
      Var2 = ~var1;
      Var2 = var2 & 0x0000f000;
      IO0PIN = ~var2;
      For(k=0;k<3000;k++);
   }
}
```