STUDENT'S NAME		TOTAL MARKS OBTAINED
CLASS	SUBJECT	
ROLL NO.	DATE	

1. Derive a Stepper motor Interface to rotate the motor in Anti-clockwise direction by N steps

```
#include<stdio.h>
#include<reg51.h>
char xdata port_at_0X803
char xdata porta_at_0Xe800;
char idata acc_at_0X30
delay()
{
   int j;
   for(j=0; j<800; j++)
   {

   }
}
Void main()
{
   port = 0X80        configure all ports in 8255 as outputPort

   while(1)
   {

      acc = 0X11;
      porta = acc;
      delay();
```

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```
acc = 0X22;
porta=acc;
delay();

acc = 0X44;
porta = acc;
delay();

acc = 0X88;
porta =acc;
delay();
}
}
```

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Design the stepper motor to rotate the motor in clockwise direction

```
#include<stdio.h>
#include<reg51.h>
char xdata port at 0Xe803;
char xdata porta at 0Xe800;
char idata acc at 0X30;
void delay
{
    for(int i=0; i<800; i++)
    {

    }
}
void main()
{
    port = 0X e80e;
    while(1)
    {
        acc = 0X88;
        porta = acc;
        delay();

        acc = 0X44;
        porta = acc
        delay();

        acc = 0X22;
        porta = acc;
        delay();

        acc = 0X11;
        porta = acc;
        delay();
}
```

PRINCE