

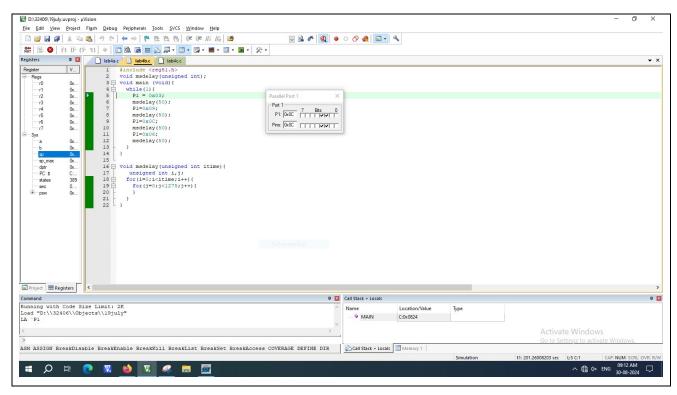
EXPT. NO.: 4

TITLE: Interfacing stepper motor with 89C51

Code 1: Anticlockwise rotation

```
#include <reg51.h>
void msdelay(unsigned int);
void main (void){
  while(1){
    P1 = 0x03;
    msdelay(50);
    P1=0x09;
    msdelay(50);
    P1=0x0C;
    msdelay(50);
    P1=0x06;
    msdelay(50);
  }
}
void msdelay(unsigned int itime){
    unsigned int i,j;
  for(i=0;i<itime;i++)
    for(j=0;j<1275;j++){
  }
```



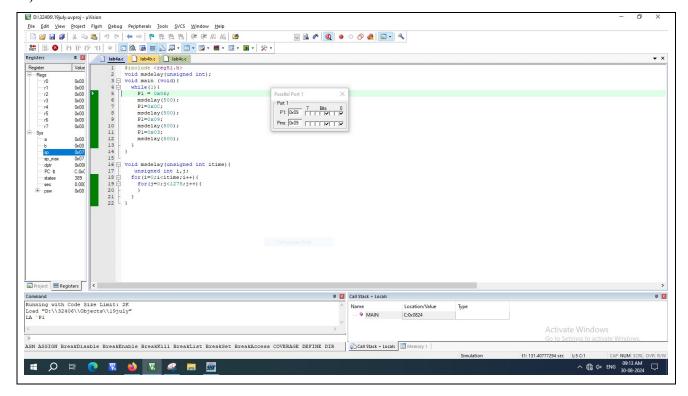


Code 2 : Clockwise rotation

```
#include <reg51.h>
void msdelay(unsigned int);
void main (void){
  while(1){
     P1 = 0x06;
     msdelay(500);
     P1=0x0C;
     msdelay(500);
     P1=0x09;
     msdelay(500);
     P1=0x03;
     msdelay(500);
}
void msdelay(unsigned int itime){
    unsigned int i,j;
MC (T.E.E &TC Engg.) 2024 2025
```



```
for(i=0;i<itime;i++){
    for(j=0;j<1275;j++){
    }
}
```



Code 3:90 degree rotation

```
#include <reg51.h>

void msdelay(unsigned int);

void main (void) {

unsigned int k;

for(k = 0; k < 3; k++) {

P1 = 0x03;

msdelay(50);

P1=0x09;

msdelay(50);

P1=0x0C;

msdelay(50);

P1=0x06;
```



```
msdelay(50);
}
msdelay(50000);
}

void msdelay(unsigned int itime){
    unsigned int i,j;
    for(i=0;i<itime;i++){
        for(j=0;j<1275;j++){
        }
    }
}</pre>
```

