Experiment 6

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Aim: To perform operations with 8051 using Keil software Procedure:

1. **Code 1:**

```
#include<reg51.h>
void delay ms (unsigned int j); //Delay function declaration
sbit toggle=P1^0; //define name for Port bit
void main (void)
 unsigned int z; //initialize varible..
 //Pl=OxFF;
 P1=0x00;
              //configure Port 1 As output port.
 for (z=50000; z>0; z--) //(toggle Pl Bits 15times
   toggle=0; //send data to port 1 pin 0.
   delay_ms(1000); //wait some time (delay=lsec).
   toggle=1; //send another data for toggle the bits.
   delay_ms(1000); //wait some time (delay=lsec).
  }
}
void delay_ms(unsigned int j) // DELAY = lms
 unsigned int i;
 for(;j>0;j--)
   for(i=250;i>0;i--)
   //for(i=250;i>0;i--)
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 }
```

Code 2:

```
#include<reg51.h>
void delay ms(unsigned int j); //Delay function declaration
                    //define name for Port bit
sbit toggle=P1^0;
void main (void)
  //P1=0x00;
                    //configure Port 1 As output port.
                //(toggle Pl Bits continously
  while (1)
   toggle=0; //send data to port 1 pin 0.
delay_ms(250); //wait some time
toggle=1.
                     //wait some time (delay=lsec).
    toggle=1;
                 //send another data for toggle the bits.
   delay_ms(250); //wait some time (delay=lsec).
void delay_ms(unsigned int j) // DELAY = lms
  unsigned int i;
  for(;j>0;j--)
   for(i=250;i>0;i--);
    //for(i=250;i>0;i--)
   //()
  }
```

Code 3:

```
#include<reg51.h>
void delay_ms(unsigned int j); //Delay function declaration
sbit toggle=P1^0;
                   //define name for Port bit
void main (void)
  unsigned int z; //initialize varible..
  //P1=0xFF;
  P1=0x00;
                  //configure Port 1 As output port.
for(z=0;z<15;z++) //(toggle Pl Bits 15times
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               //send data to port 1 pin 0.
   toggle=0;
   delay ms(1000); //wait some time (delay=lsec).
   toggle=1;
               //send another data for toggle the bits.
   delay_ms(1000); //wait some time (delay=lsec).
  1
}
void delay_ms(unsigned int j) // DELAY = lms
 unsigned int i;
  for(;j>0;j--)
   for (i=250; i>0; i--)
   //for(i=250;i>0;i--)
   //()
}
```

Hardware:

