

## ❖ IMPLEMENTATION OF DOOR SENSOR

### CODE:-

**/\* A door sensor is connected to bit 1 of port B, and an LED is connected to bit 6 of port C. Writing an AVR c program to monitor the door sensor and, when it opens, turns on the LED without changing the state of other pins \*/**

```
#include <avr/io.h>
```

```
Int main(void)
```

```
{
```

```
    DDRB=DDRB&0b11111101; //fd
```

```
    DDRC=DDRC|0b01000000; //40
```

```
    While(1)
```

```
    {
```

```
    If ( PINB & 0b00000010 ) //02
```

```
        PORTC=PORTC| 0b01000000; //40
```

```
        else
```

```
        PORTC=PORTC&0b10111111; //bf
```

```
    }
```

```
    return 0;
```

```
}
```

