```
Ex1
```

```
unsigned int a=0b000000001;
void setup()
 DDRD = 0b11111111;
 DDRB = 0b00000011;
void loop()
 PORTD = a;
 if (a==0b10000000)
 a=0b00000001;
  delay(500);
  PORTD = a;
 delay(500);
 a=a<<1;
Ex2
unsigned int a=0b000000001;
void setup()
 DDRD = 0b11111111;
 DDRB = 0b00000011;
void loop()
 PORTD = a;
 delay(400);
 if (PINB==0b00000001&&a!=0b10000000)
 if (PINB==0b00000010&&a!=0b00000001)
 a=a>>1;
```

```
Ex3
```

```
unsigned int a=0b000000001;
void setup()
{
    DDRD = 0b111111111;
    DDRB = 0b00000011;
}
void loop()
{
    int d =analogRead(A0);
    PORTD = a;
    delay(d);
    if (PINB==0b00000001&&a!=0b100000001)
    a=a<<1;
    if (PINB==0b000000010&a!=0b00000001)
    a=a>>1;
}
```