Exp3.- Design a Door Bell Using a Push Button

const int switchPin=2;

const int bellPin=7;

int bellState=LOW;

int switchState=LOW;

int lastswitchState=LOW;

unsigned long lastDebounceTime=0;

unsigned long debounceDelay=10;

void setup()

{

pinMode(switchPin,INPUT);

pinMode(bellPin,OUTPUT);

digitalWrite(bellPin,bellState);

}

void loop()

{

int reading=digitalRead(switchPin);

if( reading!=lastswitchState)

{

lastDebounceTime=millis();

}

if(millis()-lastDebounceTime)>debounceDelay)

{

if(reading!=switchState)

{

switchState=reading;

if(switchState=HIGH)

{

bellState=!bellState;

}

}

}

digitalWrite(bellPin,bellState);

lastswitchState=reading;

}