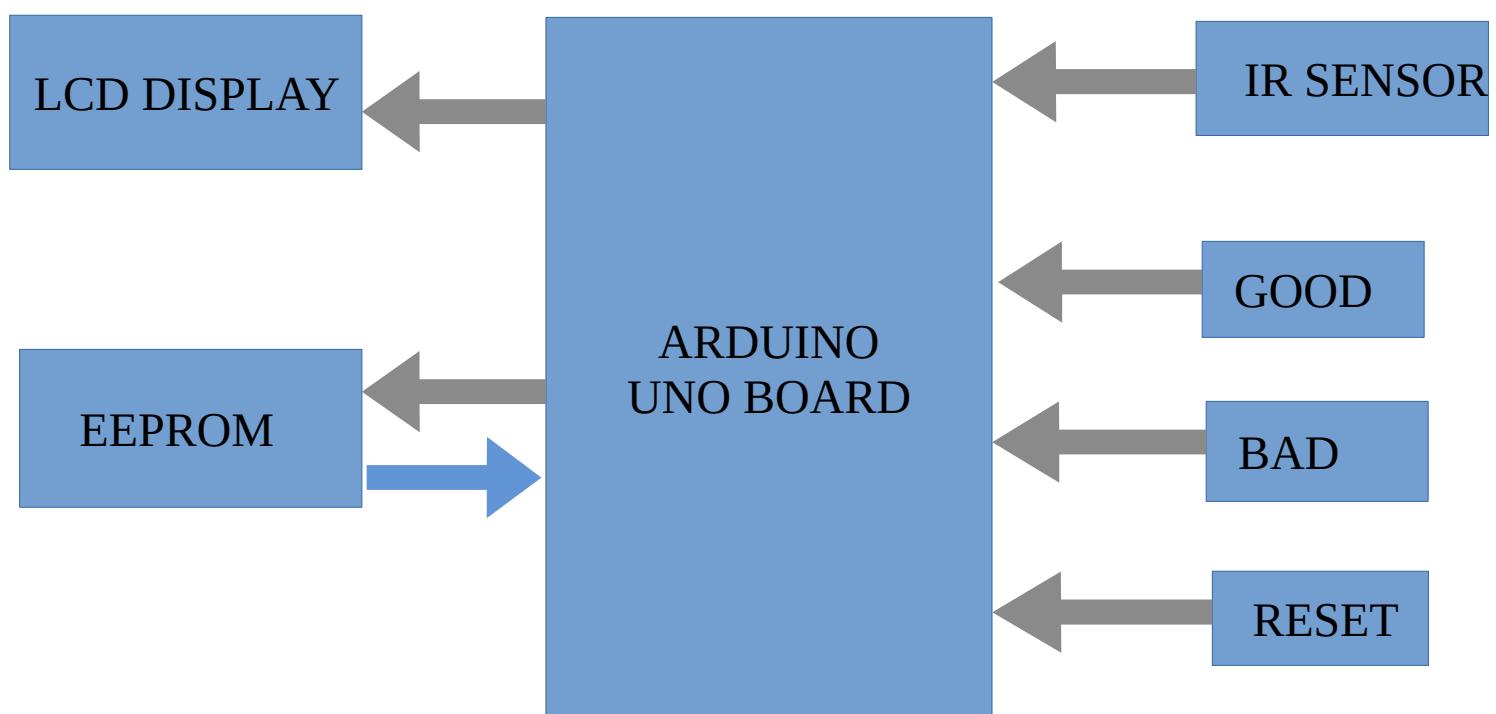


PROJECT NO-4

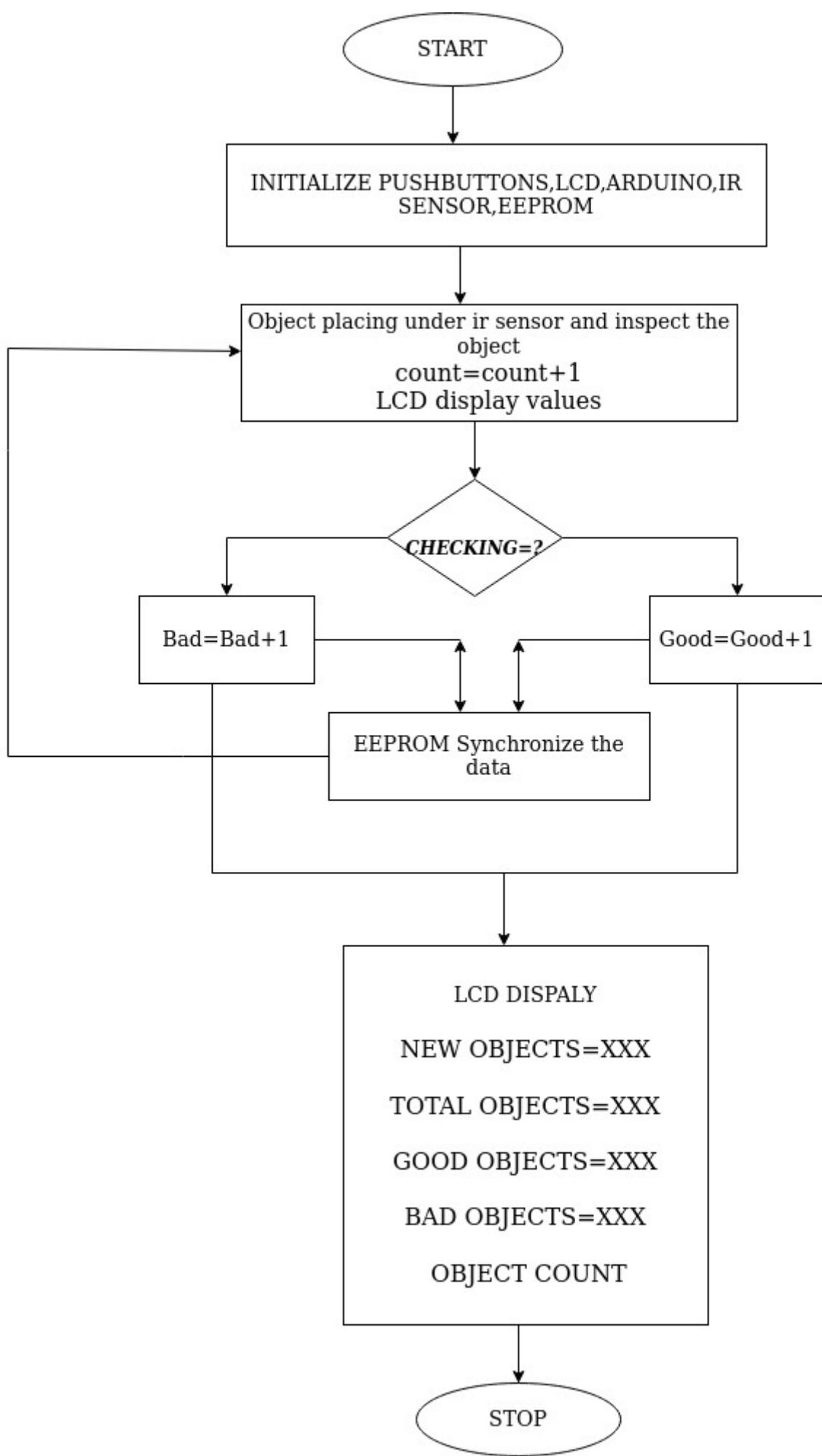
AIM:-In this project we are going to design the product counter in the industries.

- 1).In this project we design a count objects using Arduino uno ,IR sensor and lcd display.The EEPROM is used to storage the element synchronize the data of object after power off.When we turn on Power data will be synchronized.
- 2).When the inspector use to check the products the pushbutton is taken as input there are three pushbuttons they are(RESET,GOOD,BAD).whenever the inspector press BAD or GOOD button object count will be stored particular category.

BLOCK DIAGRAM:-



FLOWCHART:-



PROGRAM CODE:-

```
#include <EEPROM.h>
#include<LiquidCrystal.h>

const int rs=13,en=12,d4=11,d5=10,d6=9,d7=8;
LiquidCrystal lcd(rs,en,d4,d5,d6,d7);
int count=0;
int good=0;
int bad=0;
int ir=A3;
int sum=0;
int button_good=3;
int button_bad=2;
int button_reset=1;

void setup(){
    lcd.begin(20,4);
    pinMode(button_good,INPUT);
    pinMode(button_bad,INPUT);
    pinMode(button_reset,INPUT);
    pinMode(ir,INPUT);
}

void loop(){
    int state1=digitalRead(button_good);
    int state2=digitalRead(button_bad);
    int state3=digitalRead(button_reset);
    if(ir==1 && (state1==HIGH || state2==HIGH))
    {
        count=count+1;
        EEPROM.write(1,count);
        delay(4000);}
```

```
if(state1==HIGH)
{
    good=good+1;
    EEPROM.write(3,good);
    delay(70);
}
else{
    good=good;
    EEPROM.write(3,good);
}
if(state2==HIGH)
{
    bad=bad+1;
    EEPROM.write(5,bad);
    delay(70);
}
else{
    bad=bad;
    EEPROM.write(5,bad);
}
}
if(state3==HIGH)
{
    count=0;
    EEPROM.write(1,count);
    good=0;
    EEPROM.write(3,good);
    bad=0;
    EEPROM.write(5,bad);
    sum=0;
    EEPROM.write(7,sum);
```

```
lcd.clear();
lcd.setCursor(2,1);
lcd.print("DATA CLEARED");
delay(300);
lcd.clear();
}
else
{
    count=count;
    EEPROM.write(1,count);
}
lcd.setCursor(0,0);
count=EEPROM.read(1);
lcd.print(" NEW OBJECTS ");
lcd.print(count);
lcd.setCursor(0,2);
good=EEPROM.read(3);
lcd.print(" GOOD OBJECTS ");
lcd.print(good);
lcd.setCursor(0,3);
bad=EEPROM.read(5);
lcd.print(" BAD OBJECTS ");
lcd.print(bad);
lcd.setCursor(0,1);
bad=EEPROM.read(5);
sum=good+bad;
EEPROM.write(7,sum);
lcd.print(" TOTAL OBJECTS ");
sum=EEPROM.read(7);
lcd.print(sum);
```

RESULT/ANALYSIS:-

