1. ***Design Product/Object Counter using Arduino Microcontroller***
2. ***Block Diagram***

IR\_Sensor

Arduino

Microcontroller

PUSH\_1\_Good

20\*4 LCD

EEPROM\_I2c

PUSH\_2\_Bad

Push\_Button

1. ***Table***

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **s.no.** | **Discription** | **Name** | **Type** | **Data Direction** | **Specification** | **Remarks** |
| ***1.*** | ***20\*4 LCD***  ***Display*** | 20\*4 LCD | *OUTPUT* | DO | *5VDC* |  |
| ***2.*** | ***Pushbutton*** | PUSH\_1\_Good | *INPUT* | DI | *5VDV* |  |
| ***3.*** | ***Pushbutton*** | *Push\_2\_Bad* | *INPUT* | DI | *5VDC* |  |
| ***4.*** | ***IR\_Sensor*** | IR\_  Sensor | *INPUT* | DI | *N/A* |  |
| ***5.*** | ***Pushbutton*** | Push\_Button | *INPUT* | DI | *5VDC* |  |
| ***6.*** | ***EEPROM*** | EEPROM\_I2C | *OUTPUT* | DO | *5VDC* |  |

1. ***Flowchart***

START

Initialize the IR\_Sensor,Push\_Buttons and LCD In Arduino

IR\_Sensor==1 && Push\_Button==1

YES

NO

Push\_1\_good==1

NO

LCD-No Object is counted

Push\_2\_Bad==1

YES

NO

Good-Product Count Incremented

LCD-Display Good Product Count

YES

Bad-Product Count Incremented

LCD-Display Bad Product Count

1. ***Code***
2. ***Simulation***