#include <Arduino.h>

#include <Wire.h>

#include "Wire.h"

#include <LiquidCrystal\_I2C.h>

LiquidCrystal\_I2C lcd(0x27, 16, 2);

char input[12];

int count = 0;

int a;

int p1=0,p2=0,p3=0,p4=0;

int c1=0,c2=0,c3=0,c4=0;

double total = 0;

int count\_prod = 0;

void setup ()

{

// Pin direction

pinMode(13, INPUT\_PULLUP); //Push Switch

pinMode(4, OUTPUT); //RED LED

pinMode(5, OUTPUT); //BUZZER

pinMode(6, OUTPUT); //GREEN LED

lcd.init();

lcd.backlight();

lcd.clear();

Wire.begin();

Serial.begin(9600);

lcd.begin(20,4);

lcd.clear();

lcd.setCursor(2, 0);

lcd.print(" AUTOMATIC BILL");

delay (2000);

lcd.setCursor(2, 1);

lcd.print(" SHOPPING CART ");

delay (2000);

lcd.clear();

lcd.setCursor(2, 0);

lcd.print(" WELCOME TO");

delay (2000);

lcd.setCursor(2, 1);

lcd.print("Harshitha");

delay (2000);

lcd.clear();

lcd.setCursor(2, 0);

lcd.print("Plz Add iTeam");

//lcd.setCursor(2, 1);

//lcd.print("JUSTDOELECTRONICS");

}

void loop()

{

count = 0;

while (Serial.available() && count < 12)

{

input[count] = Serial.read();

count++;

delay(5);

}

int a=digitalRead(13);

if ((strncmp(input, "56008C7D71D6", 12) == 0) && (a == 1))

{

lcd.setCursor(0, 0);

lcd.print("Butter Added ");

lcd.setCursor(0, 1);

lcd.print("Price(Rupes):10.00 ");

p1++;

digitalWrite(4,HIGH);

digitalWrite(5,HIGH);

digitalWrite(6,LOW);

delay(2000);

total = total + 10.00;

count\_prod++;

digitalWrite(4,LOW);

digitalWrite(5,LOW);

digitalWrite(6,HIGH);

}

else if ((strncmp(input, "56008C7D71D6", 12) == 0) && (a == 0))

{

if(p1>0)

{

lcd.clear();

lcd.setCursor(0, 0);

lcd.print("Butter Removed!!! ");

digitalWrite(4,HIGH);

digitalWrite(5,HIGH);

digitalWrite(6,LOW);

delay(2000);

p1--;

total = total - 10.00;

count\_prod--;

lcd.clear();

digitalWrite(4,LOW);

digitalWrite(5,LOW);

digitalWrite(6,HIGH);

}

else

{

lcd.clear();

lcd.setCursor(0, 0);

lcd.print("Not in cart!!! ");

digitalWrite(4,HIGH);

digitalWrite(5,HIGH);

digitalWrite(6,HIGH);

delay(2000);

digitalWrite(4,LOW);

digitalWrite(5,LOW);

digitalWrite(6,LOW);

lcd.clear();

}

}

if ((strncmp(input, "5E0039270D4D", 12) == 0) && (a == 1))

{

lcd.setCursor(0, 0);

lcd.print("Milk Added ");

lcd.setCursor(0, 1);

lcd.print("Price(Rupes):20.00 ");

p2++;

digitalWrite(4,HIGH);

digitalWrite(5,HIGH);

digitalWrite(6,LOW);

delay(2000);

total = total + 20.00;

count\_prod++;

digitalWrite(4,LOW);

digitalWrite(5,LOW);

digitalWrite(6,HIGH);

}

else if ((strncmp(input, "5E0039270D4D", 12) == 0) && (a == 0))

{

if(p2>0)

{

lcd.clear();

lcd.setCursor(0, 0);

lcd.print("Milk Removed!!! ");

digitalWrite(4,HIGH);

digitalWrite(5,HIGH);

digitalWrite(6,LOW);

delay(2000);

p2--;

total = total - 20.00;

count\_prod--;

lcd.clear();

digitalWrite(4,LOW);

digitalWrite(5,LOW);

digitalWrite(6,HIGH);

}

else

{

lcd.clear();

lcd.setCursor(0, 0);

lcd.print("Not in cart!!! ");

digitalWrite(4,HIGH);

digitalWrite(5,HIGH);

digitalWrite(6,HIGH);

delay(2000);

digitalWrite(4,LOW);

digitalWrite(5,LOW);

digitalWrite(6,LOW);

lcd.clear();

}

}

if ((strncmp(input, "3600A5AAC5FC", 12) == 0) && (a == 1))

{

lcd.setCursor(0, 0);

lcd.print("Biscuit Added ");

lcd.setCursor(0, 1);

lcd.print("Price(Rupes):25.00 ");

p1++;

digitalWrite(4,HIGH);

digitalWrite(5,HIGH);

digitalWrite(6,LOW);

delay(2000);

total = total + 25.00;

count\_prod++;

digitalWrite(4,LOW);

digitalWrite(5,LOW);

digitalWrite(6,HIGH);

}

else if ((strncmp(input, "3600A5AAC5FC", 12) == 0) && (a == 0))

{

if(p1>0)

{

lcd.clear();

lcd.setCursor(0, 0);

lcd.print("Biscuit Removed!!! ");

digitalWrite(4,HIGH);

digitalWrite(5,HIGH);

digitalWrite(6,LOW);

delay(2000);

p1--;

total = total - 25.00;

count\_prod--;

lcd.clear();

digitalWrite(4,LOW);

digitalWrite(5,LOW);

digitalWrite(6,HIGH);

}

else

{

lcd.clear();

lcd.setCursor(0, 0);

lcd.print("Not in cart!!! ");

digitalWrite(4,HIGH);

digitalWrite(5,HIGH);

digitalWrite(6,HIGH);

delay(2000);

digitalWrite(4,LOW);

digitalWrite(5,LOW);

digitalWrite(6,LOW);

lcd.clear();

}

}

lcd.setCursor(5, 2);

lcd.print("Total Price :-");

lcd.setCursor(10, 3);

lcd.print(total);

\*input = "" ;

c1=p1\*20.00;

c2=p2\*10.00;

c3=p3\*4.20;

}