#### Arduino Code Used

#include<LiquidCrystal.h>

LiquidCrystal lcd(12, 11, 5, 4, 3, 2);

#define S1 15

#define S2 16

#define S3 17

#define S4 18

#define S5 19

int vote1 = 0;

int vote2 = 0;

int vote3 = 0;

int vote4 = 0;

void setup()

{

pinMode(S1, INPUT);

pinMode(S2, INPUT);

pinMode(S3, INPUT);

pinMode(S4, INPUT);

pinMode(S5, INPUT);

lcd.begin(16, 2);

lcd.print("Electronic ");

lcd.setCursor(0, 1);

lcd.print(" Voting Machine ");

delay(2000);

digitalWrite(S1, HIGH);

digitalWrite(S2, HIGH);

digitalWrite(S3, HIGH);

digitalWrite(S4, HIGH);

digitalWrite(S5, HIGH);

lcd.clear();

lcd.setCursor(0, 0);

lcd.print("A");

lcd.setCursor(4, 0);

lcd.print("B");

lcd.setCursor(8, 0);

lcd.print("C");

lcd.setCursor(12, 0);

lcd.print("D");

}

void loop()

{

lcd.setCursor(0, 0);

lcd.print("A");

lcd.setCursor(1, 1);

lcd.print(vote1);

lcd.setCursor(4, 0);

lcd.print("B");

lcd.setCursor(5, 1);

lcd.print(vote2);

lcd.setCursor(8, 0);

lcd.print("C");

lcd.setCursor(9, 1);

lcd.print(vote3);

lcd.setCursor(12, 0);

lcd.print("D");

lcd.setCursor(13, 1);

lcd.print(vote4);

if (digitalRead(S1) == 0)

vote1++;

while (digitalRead(S1) == 0);

if (digitalRead(S2) == 0)

vote2++;

while (digitalRead(S2) == 0);

if (digitalRead(S3) == 0)

vote3++;

while (digitalRead(S3) == 0);

if (digitalRead(S4) == 0)

vote4++;

while (digitalRead(S4) == 0);

if (digitalRead(S5) == 0)

{

int vote = vote1 + vote2 + vote3 + vote4;

if (vote)

{

if ((vote1 > vote2 && vote1 > vote3 && vote1 > vote4))

{

lcd.clear();

lcd.print("A is Winner");

delay(1000);

lcd.clear();

}

else if ((vote2 > vote1 && vote2 > vote3 && vote2 > vote4))

{

lcd.clear();

lcd.print("B is Winner");

delay(1000);

lcd.clear();

}

else if ((vote3 > vote1 && vote3 > vote2 && vote3 > vote4))

{

lcd.clear();

lcd.print("C is Winner");

delay(1000);

lcd.clear();

}

else if (vote4 > vote1 && vote4 > vote2 && vote4 > vote3)

{

lcd.setCursor(0, 0);

lcd.clear();

lcd.print("D is Winner");

delay(1000);

lcd.clear();

}

Else

{

lcd.clear();

lcd.print(" Tie Up Or ");

lcd.setCursor(0, 1);

lcd.print(" No Result ");

delay(1000);

lcd.clear();

}

}

else

{

lcd.clear();

lcd.print("No Voting....");

delay(1000);

lcd.clear();

}

vote1 = 0; vote2 = 0; vote3 = 0; vote4 = 0, vote = 0;

lcd.clear();

}

}