#include "mbed.h"

Serial pc(USBTX, USBRX); // tx, rx

int main() {

AnalogIn analog\_value\_0(A2);

AnalogIn analog\_value\_1(A3);

AnalogIn analog\_value\_2(A4);

double meas\_0;

double meas\_1;

double meas\_2;

double x1[4];

double x2[4];

double x3[4];

int j;

while(1)

{

char c = pc.getc();

// for(j=1; j<=4; j++)

//{

if (c == 's')

{

meas\_0 = analog\_value\_0.read(); // Converts and read the analog input value (value from 0.0 to 1.0)

meas\_0 = meas\_0 \* 3.3; // Change the value to be in the 0 to 3300 range

x1[1] = meas\_0;

printf("%f, ",x1[1]);

meas\_1 = analog\_value\_1.read(); // Converts and read the analog input value (value from 0.0 to 1.0)

meas\_1 = meas\_1 \* 3.3; // Change the value to be in the 0 to 3300 range

x2[1] = meas\_1;

printf("%f, ",x2[1]);

meas\_2 = analog\_value\_2.read(); // Converts and read the analog input value (value from 0.0 to 1.0)

meas\_2 = meas\_2 \* 3.3; // Change the value to be in the 0 to 3300 range

x3[1] = meas\_2;

printf("%f, ",x3[1]);

wait(5);

meas\_0 = analog\_value\_0.read(); // Converts and read the analog input value (value from 0.0 to 1.0)

meas\_0 = meas\_0 \* 3.3; // Change the value to be in the 0 to 3300 range

x1[2] = meas\_0;

printf("%f, ",x1[2]);

meas\_1 = analog\_value\_1.read(); // Converts and read the analog input value (value from 0.0 to 1.0)

meas\_1 = meas\_1 \* 3.3; // Change the value to be in the 0 to 3300 range

x2[2] = meas\_1;

printf("%f, ",x2[2]);

meas\_2 = analog\_value\_2.read(); // Converts and read the analog input value (value from 0.0 to 1.0)

meas\_2 = meas\_2 \* 3.3; // Change the value to be in the 0 to 3300 range

x3[2] = meas\_2;

printf("%f, ",x3[2]);

wait(5);

meas\_0 = analog\_value\_0.read(); // Converts and read the analog input value (value from 0.0 to 1.0)

meas\_0 = meas\_0 \* 3.3; // Change the value to be in the 0 to 3300 range

x1[3] = meas\_0;

printf("%f, ",x1[3]);

meas\_1 = analog\_value\_1.read(); // Converts and read the analog input value (value from 0.0 to 1.0)

meas\_1 = meas\_1 \* 3.3; // Change the value to be in the 0 to 3300 range

x2[3] = meas\_1;

printf("%f, ",x2[3]);

meas\_2 = analog\_value\_2.read(); // Converts and read the analog input value (value from 0.0 to 1.0)

meas\_2 = meas\_2 \* 3.3; // Change the value to be in the 0 to 3300 range

x3[3] = meas\_2;

printf("%f, ",x3[3]);

wait(5);

meas\_0 = analog\_value\_0.read(); // Converts and read the analog input value (value from 0.0 to 1.0)

meas\_0 = meas\_0 \* 3.3; // Change the value to be in the 0 to 3300 range

x1[4] = meas\_0;

printf("%f,",x1[4]);

meas\_1 = analog\_value\_1.read(); // Converts and read the analog input value (value from 0.0 to 1.0)

meas\_1 = meas\_1 \* 3.3; // Change the value to be in the 0 to 3300 range

x2[4] = meas\_1;

printf("%f,",x2[4]);

meas\_2 = analog\_value\_2.read(); // Converts and read the analog input value (value from 0.0 to 1.0)

meas\_2 = meas\_2 \* 3.3; // Change the value to be in the 0 to 3300 range

x3[4] = meas\_2;

printf("%f \n",x3[4]);

wait(5);

//}

}

}

}