```
clear all;
clc;
llroutput=zeros(2,2); %Initial values
temp=llroutput;
%inputllr=[1.5 0.1 2.5; 0.2 0.3 2.0; 6.0 1.0 0];  %input for part a
inputllr=[2.81 -1.23 0.61; 0.08 -0.23 1.53; 2.43 5.37 0]; %Input for part b
finalop=zeros(2,2);
i=1;
while 1
    fprintf('Iteration: %i',i);  % computation value
    temp(1,1)=LLR(inputllr(1,2)+llroutput(1,2),inputllr(1,3));
    temp(1,2)=LLR(inputllr(1,1)+llroutput(1,1),inputllr(1,3));
    temp(2,1)=LLR(inputllr(2,2)+llroutput(2,2),inputllr(2,3));
    temp(2,2)=LLR(inputllr(2,1)+llroutput(2,1),inputllr(2,3));
    llroutput=temp;
    horizontalop=llroutput; %Horizantal output
    fprintf('\nHorizontal Output: \n');
    disp(horizontalop);
    temp(1,1)=LLR(inputllr(2,1)+llroutput(2,1),inputllr(3,1));
    temp(2,1)=LLR(inputllr(1,1)+llroutput(1,1),inputllr(3,1));
    temp(1,2)=LLR(inputllr(2,2)+llroutput(2,2),inputllr(3,2));
    temp(2,2)=LLR(inputllr(1,2)+llroutput(1,2),inputllr(3,2));
    llroutput=temp;
    verticalop=llroutput;   %Vertical output
    fprintf('\nVertical Output: \n');
    disp(verticalop);
    fprintf('Final output: \n');
    finalopnew=horizontalop+verticalop+inputllr(1:2,1:2); %Final output
    disp(finalopnew);
    if(finalopnew==finalop)
        break;
    else
        finalop=finalopnew;
        i=i+1;
    end
end
```

```
Iteration: 1
Horizontal Output:
    0.6100   -0.6100
    0.2300   -0.0800


Vertical Output:
   -0.3100    0.3100
   -2.4300    1.8400

Final output:
    3.1100   -1.5300
   -2.1200    1.5300

Iteration: 2
Horizontal Output:
    0.6100   -0.6100
   -1.5300    1.5300
```

```
Vertical Output:
    1.4500   -1.3000
   -2.4300    1.8400

Final output:
    4.8700   -3.1400
   -3.8800    3.1400

Iteration: 3
Horizontal Output:
    0.6100   -0.6100
   -1.5300    1.5300


Vertical Output:
    1.4500   -1.3000
   -2.4300    1.8400

Final output:
    4.8700   -3.1400
   -3.8800    3.1400
```

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