Part 1:

clear;

clc;

Po = 0:0.01:1;

H\_Po = zeros(1, length(Po));

for i = 2:length(Po)-1

if Po(i) ~= 0 && Po(i) ~= 1 then

H\_Po(i) = -Po(i) \* (log(Po(i)) / log(2)) - (1 - Po(i)) \* (log(1 - Po(i)) / log(2));

else

H\_Po(i) = 0;

end

end

plot(Po, H\_Po)

xlabel("Symbol Probability, Po");

ylabel("H(Po)");

title("Entropy function H(Po)");

Part 2:

clear;

clc;

ylabel('H(Po)')

title('entropy function H(Po)')

plot2d3('gnn',0.5,1)