Assignment 2 Part A

clear

ff=[];

x=round(rand(1,10000));

y=0;

for n=4:9999

if x(n)==1

if x(n-1)==1

if x(n-2)==1

if x(n-3)==1

ff = [ff x(n+1)];

end

end

end

end

end

%Ntoss = 100

fft= (sum(ff == 0));

L = length(ff);

hp= fft/L;

%n(x>0.5) = 1

if hp>0.5

disp(hp\*100 +"% are tails. More than half are tails.")

end

%toss = (x > 0.5)

if hp<0.5

disp(hp\*100 +"% are tails. Less than half are tails.")

end

Assignment 2 Part B

clear

hh=0;

for n=1:10000

flip1=round(rand);

if flip1==1

flip2= round(rand);

if flip2==1

hh=hh+1;

end

end

end

x=sum(hh);

y = (x/10000)

disp(x + "/" + n + " or " + y\*100 + "% are heads-heads.")