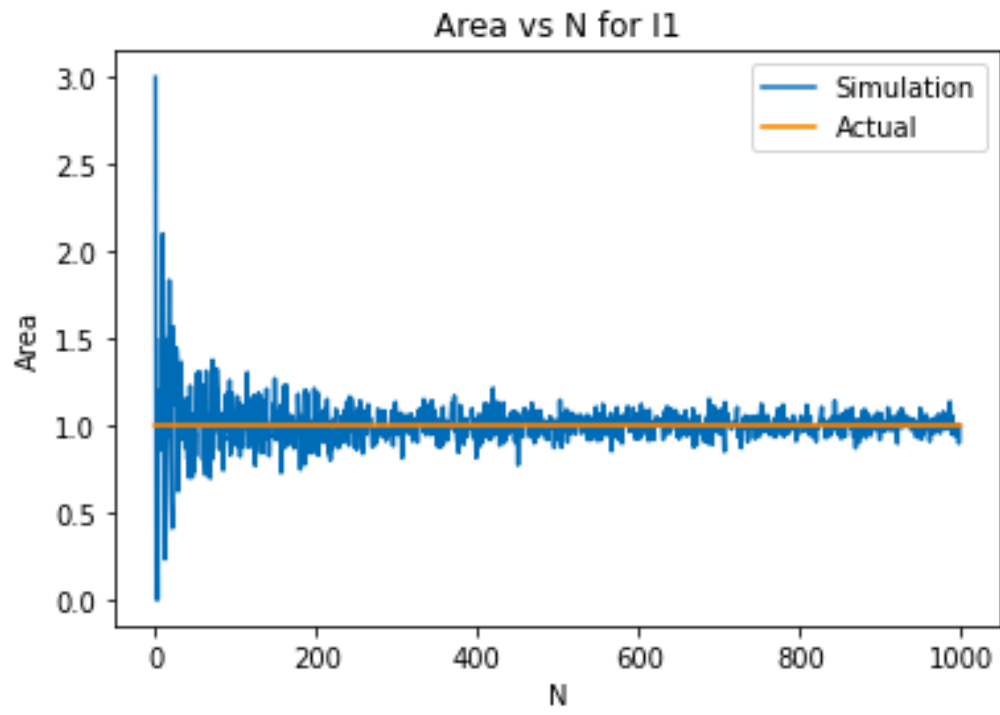
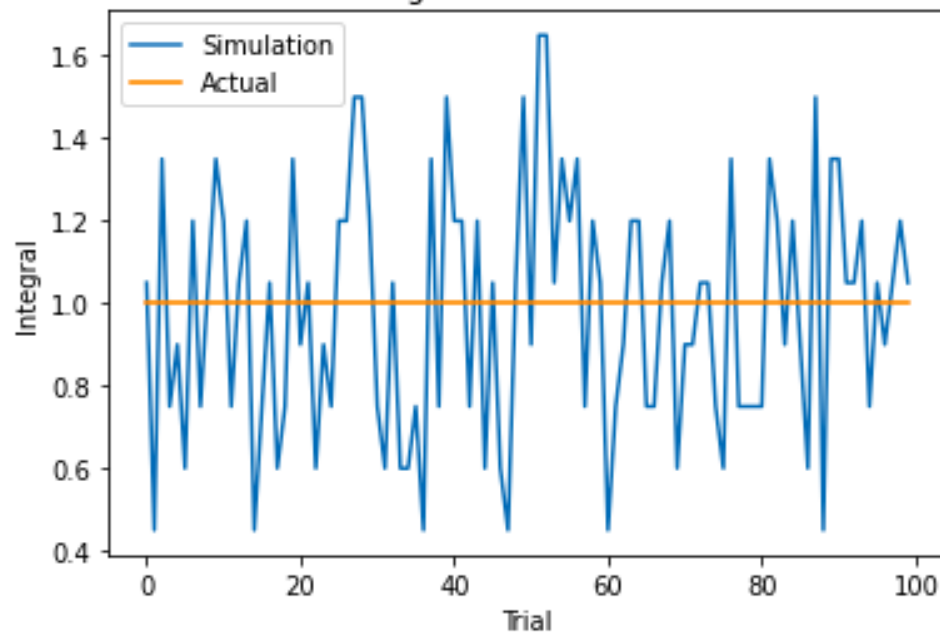


I_1



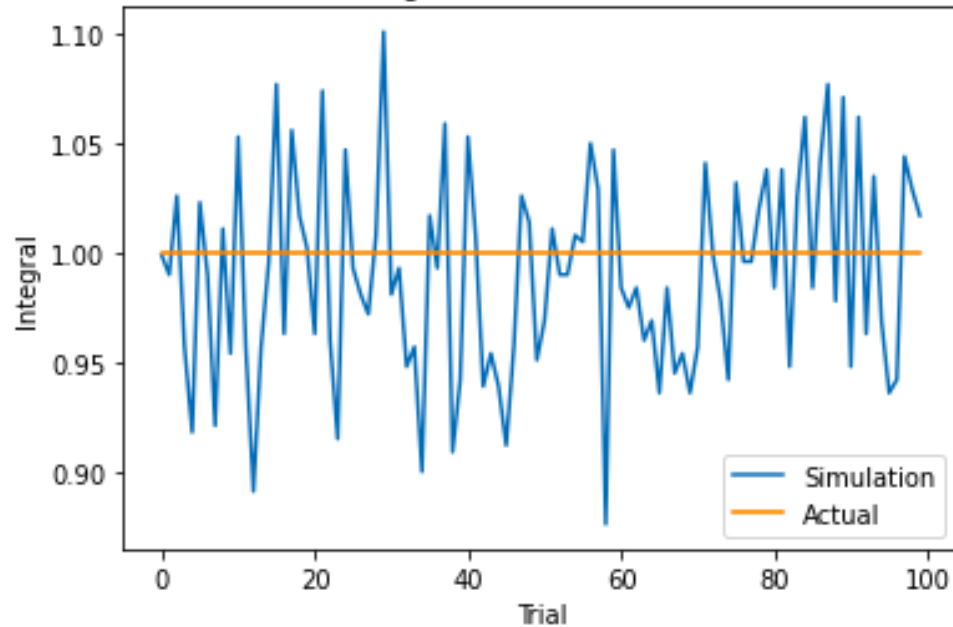
Standard Deviation: 0.3010738357038927

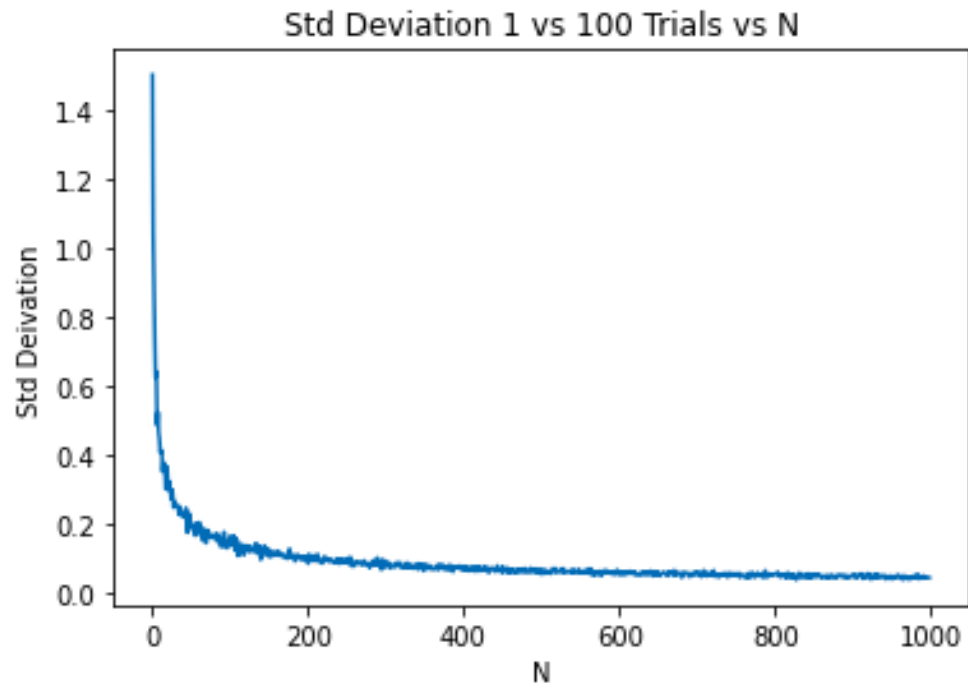
Integral 1 vs Trial N=20



Standard Deviation: 0.04660521820178898

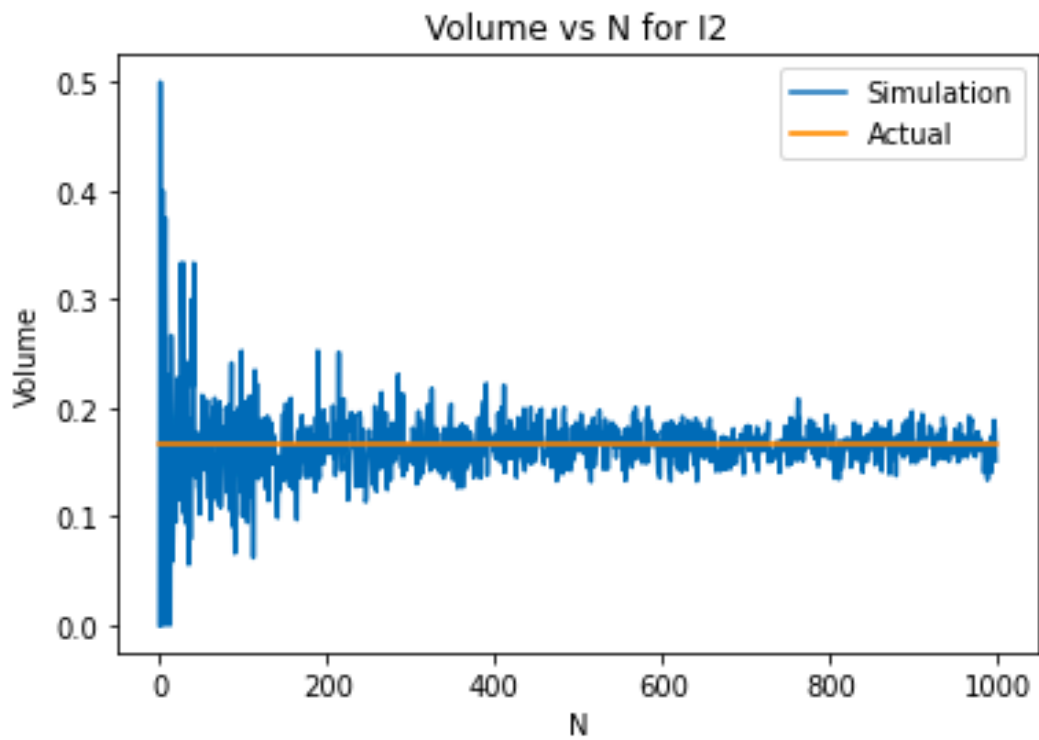
Integral 1 vs Trial N=1000



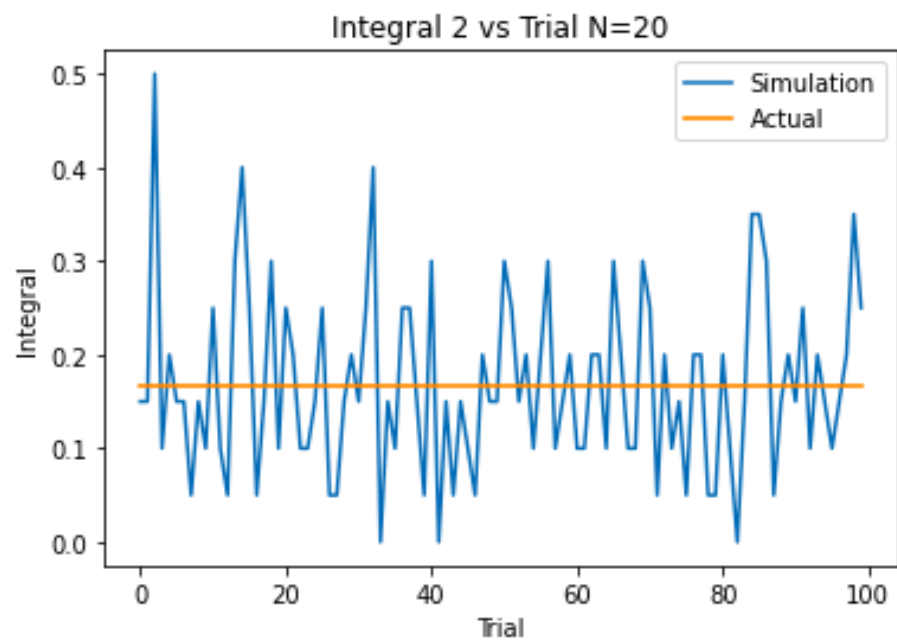


The standard deviation obtained was proportional to the $1/\sqrt{N}$.

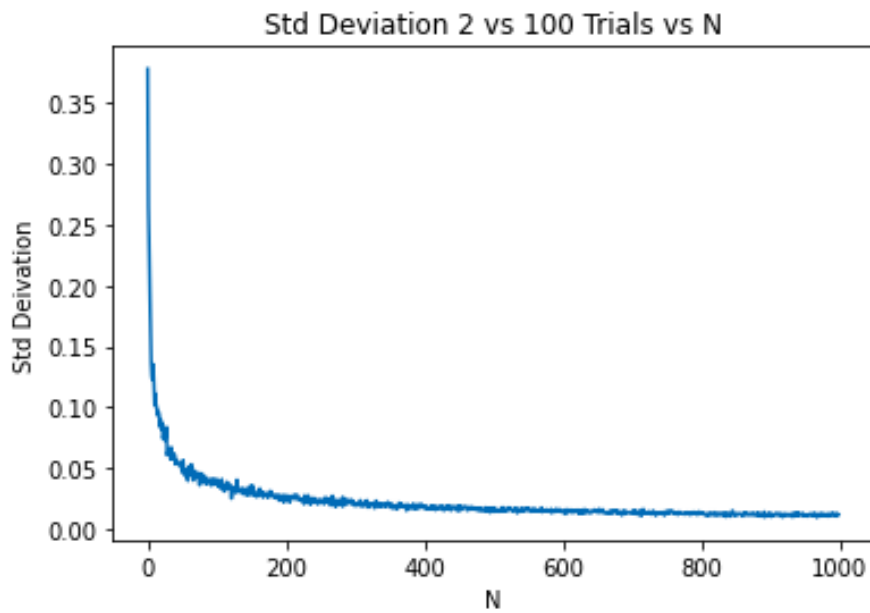
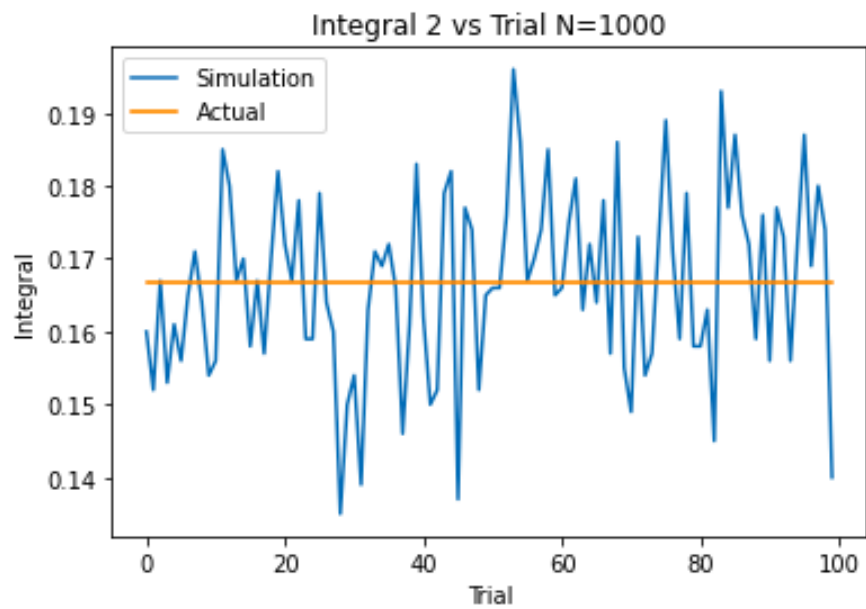
I_2



Standard Deviation: 0.0958165334418235



Standard Deviation: 0.01251349170885068



The standard deviation obtained was proportional to the $1/\sqrt{N}$.