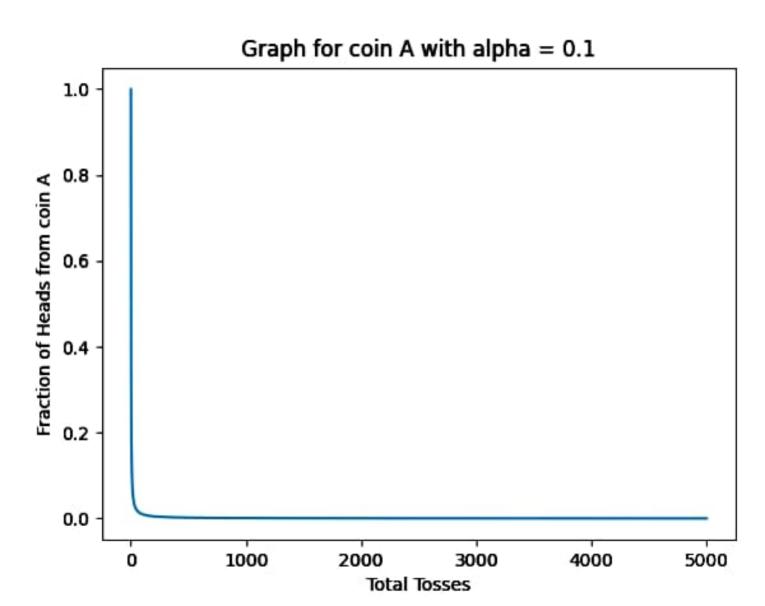
10 for PA=0.2 PB=0.4 Pc=0.7= listingly and in the Value of N Best value of NI P Is it the correct value 6 20 0.0 N0 0.7 res 100 31 To The Mes 1000 54000 F85 for PA = 0.215 PB = 0.5 DC = 0.58. Best value of NI P Is it the correct value of P. Value of N 0,5 NO 6 20 yes 0,58 33 600 469 82.0 326 0001 ५६९. 0,58. 1196 5000

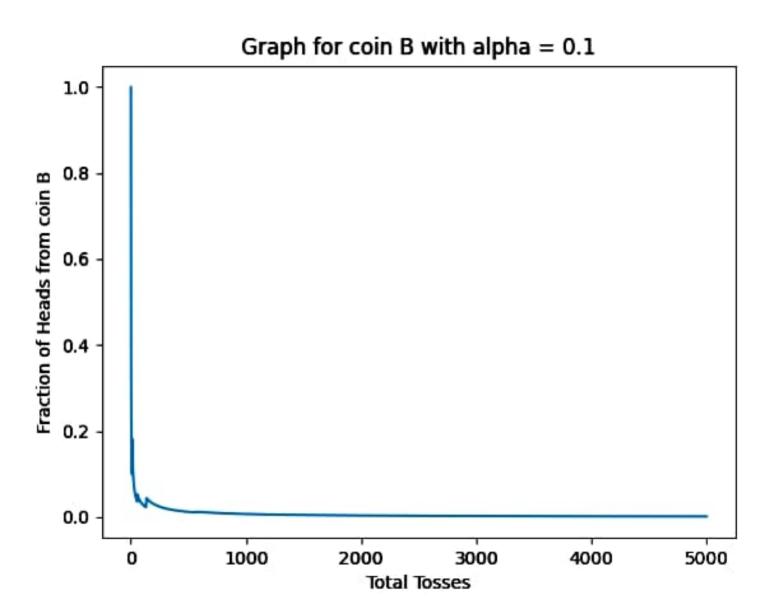
(i) P=0.2 PB=0.4 PC=0.4. ctivi proce por - when N=20 average humber of times connect upin was used = 12:817 average number of heads = 11.519 - ಕ್ರಾಡಕ್ಕೆ ಕರ್ಷಕ್ಕೆ ಕರ್ಮದ ಕ್ರಾಡಕ್ಕೆ (3) Para when No 100 and humbon of times correct doin was used = 86-125 and mumber of heads = 64.891 - when N= 1000 decci nico torrer senis to in avg no: of times correct coin was used : 981822 and with per person some services and services promote does to your - when <u>N = 5000</u> and wo of people = 3446.23 (11) PA = 0.45 PB = 0.50 Pc = 0.58 50 50 5 10 55 Sec. 1 - when M=20 aver no d times correct coin was used = 8.44 oug no: de heads = 110:282 - when N= 100 oug no d times correct coin was used = 52 446 oug no: d heads = 52.697. _ when N=1000 and used times correct coin mos used 5/799,288 ang no: of heads = 553.591 aug not d heads: 2824.23 let \ \ = 0.05 (h) Pa = 0,2 PB = 0,4 R= 0,7. and used + times correct coin mos used = 12.316 and used there correct coin mos used & SU. 642

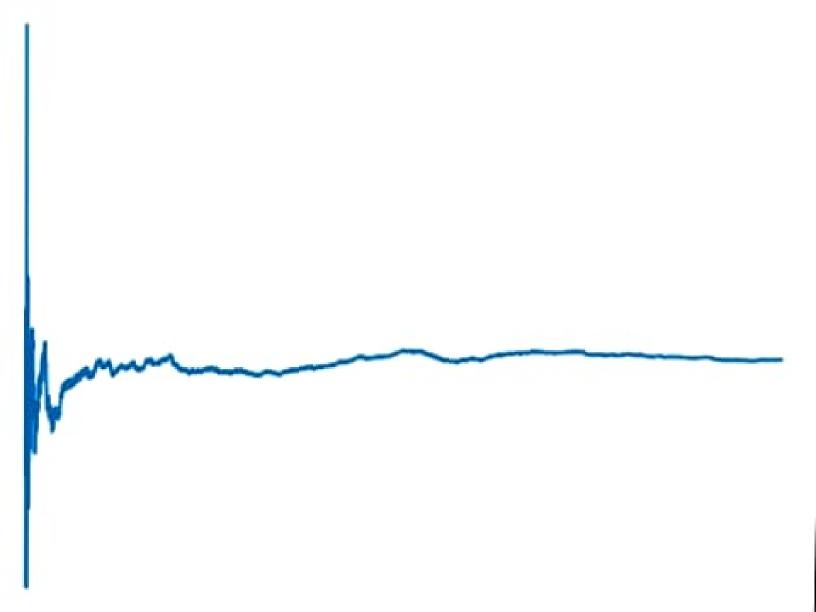
16 Let [x:0.1]

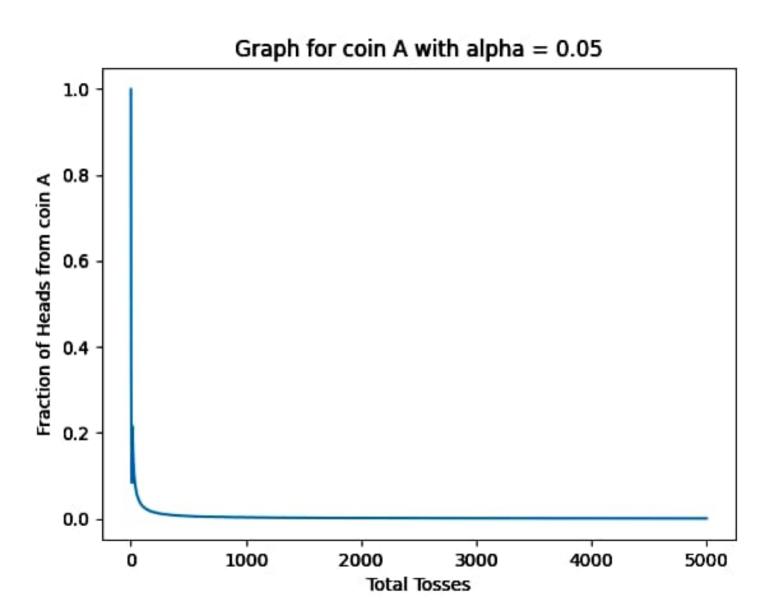
-1 when U = 1000 aug no of three correct coin was used = 9749.318 avg noid heads = 683,824 - ushen N= 5000 and no. of times correct coin was used = 4977.36 and word heads = stills. 16. (11) P= 0.45 P= 0.58. - mpos N=20 and no: of times comed coin was used = 8.361 and us of people = 10.250 and us of times connect own mos used = 52.168. - when M=100 oug no d time heads = 52.508. M=1000 oug noid times connect coin wood weed = 787.915 and no. of heads = 551,996, oug no. of times correct coin was used = 4681.29 and wo of peads = 2524.04 0.01 1) P=-0.2 PB=0.4 PC=0.7 - when <u>N=20</u> one no d times correct coin was used = 11.804 ang no: of heads. = 10.801 ourg no: of times comed coin was used = 81.585 Re- bohen W= 100 aug no: d' heads = 62.247

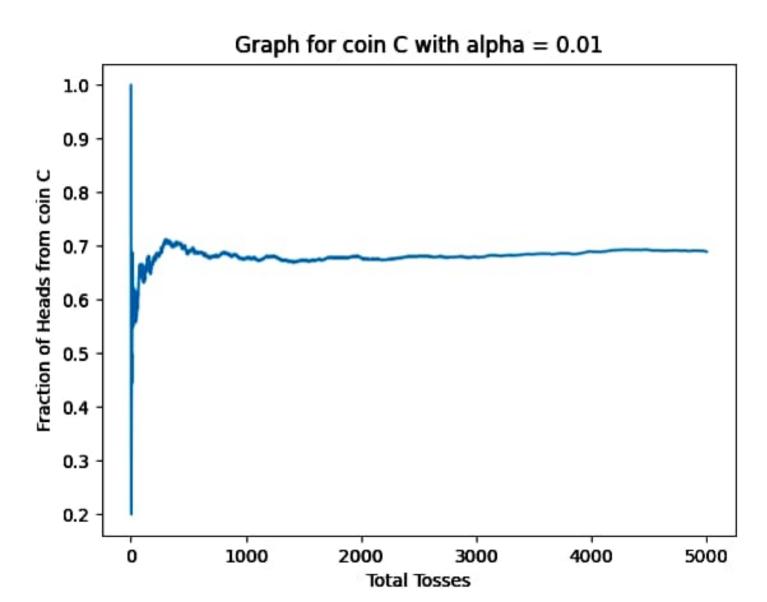
- worker 12000 100 100 30 0 100 100 and wo: of times connect copye mere men = 18:219 and no. of heads = 52:069 - when Nz 1000 320 1.9 . ne 15 ava notal times correct coins were used = 767.434 oug no; of heads = 550.262 42000 XID X 39 4 F - when H= moo and voi of programmes connect coins were not + April 23

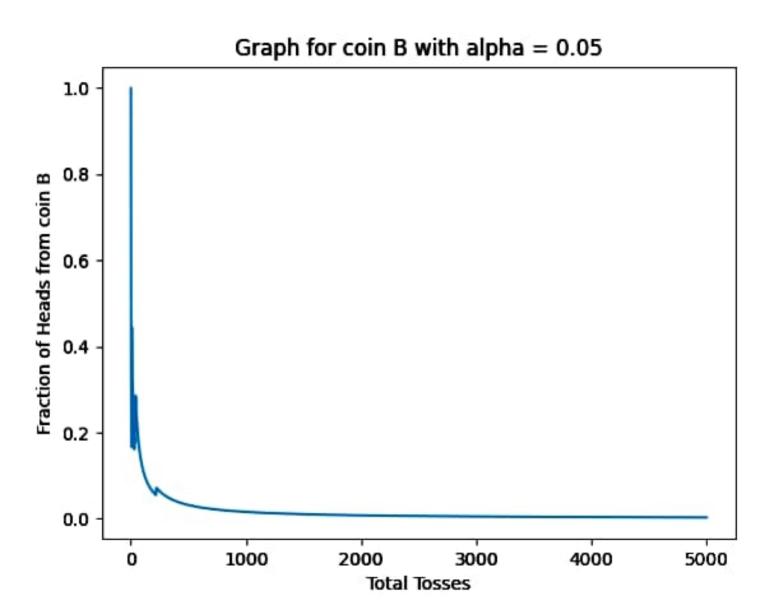


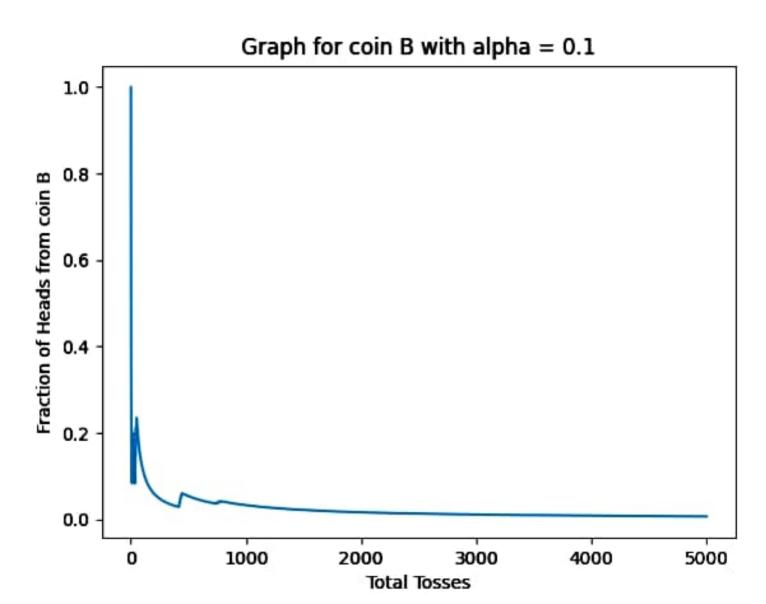


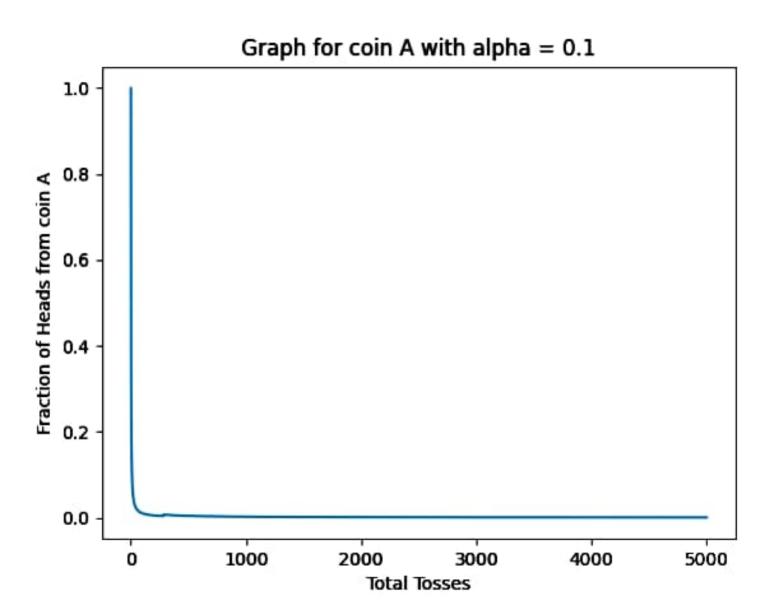


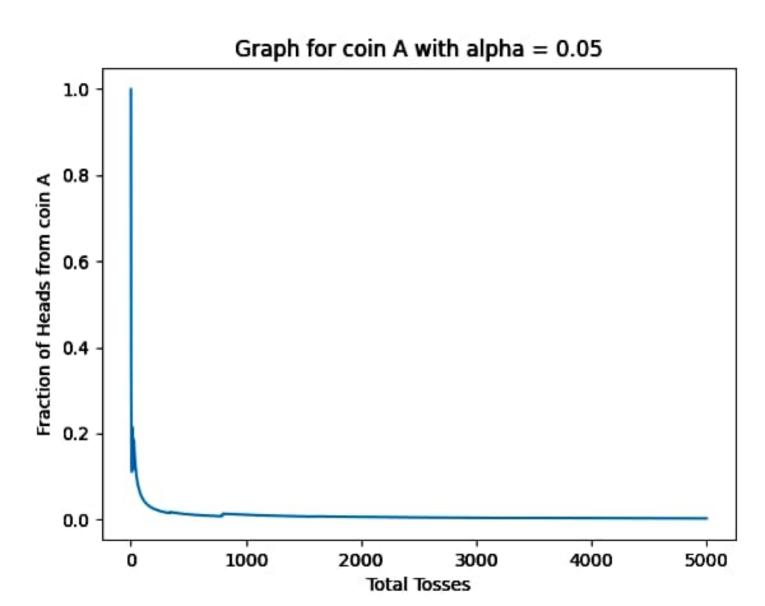


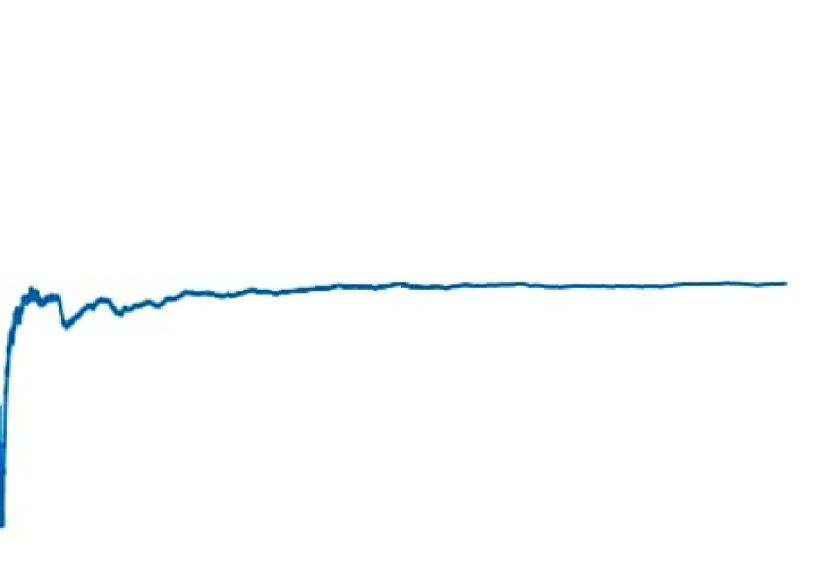


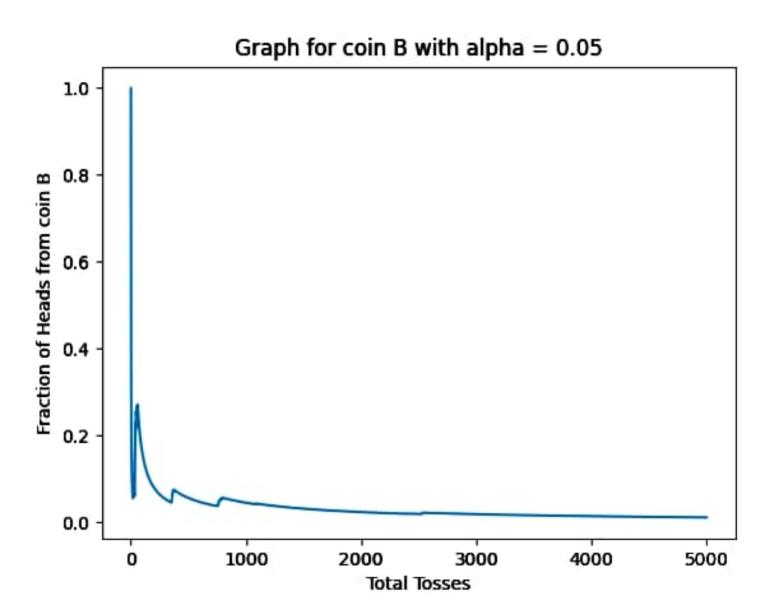


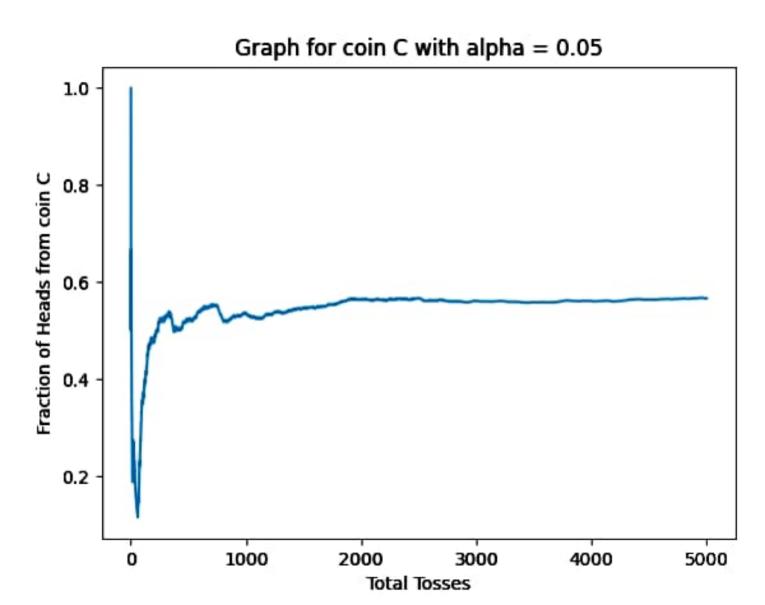


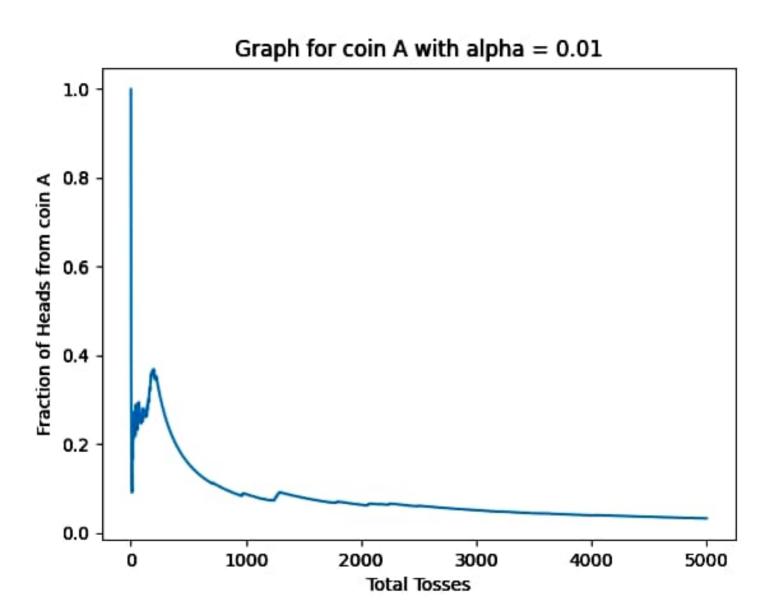


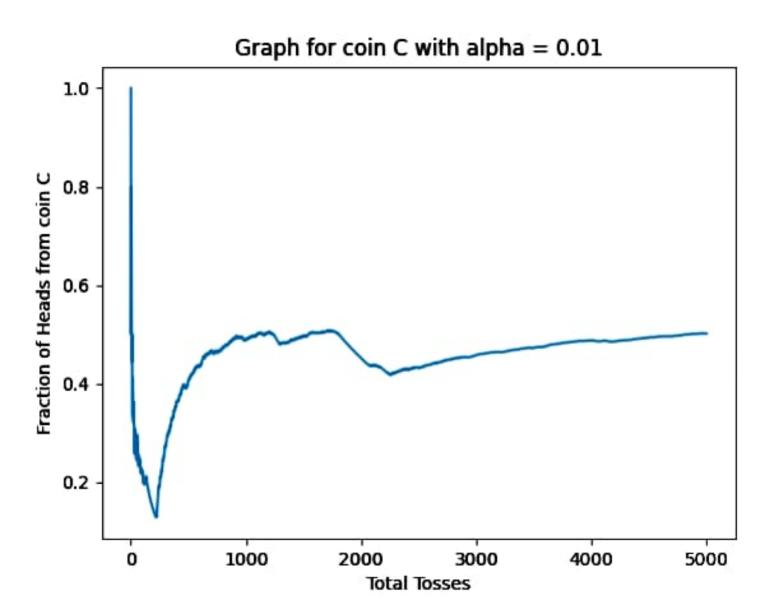


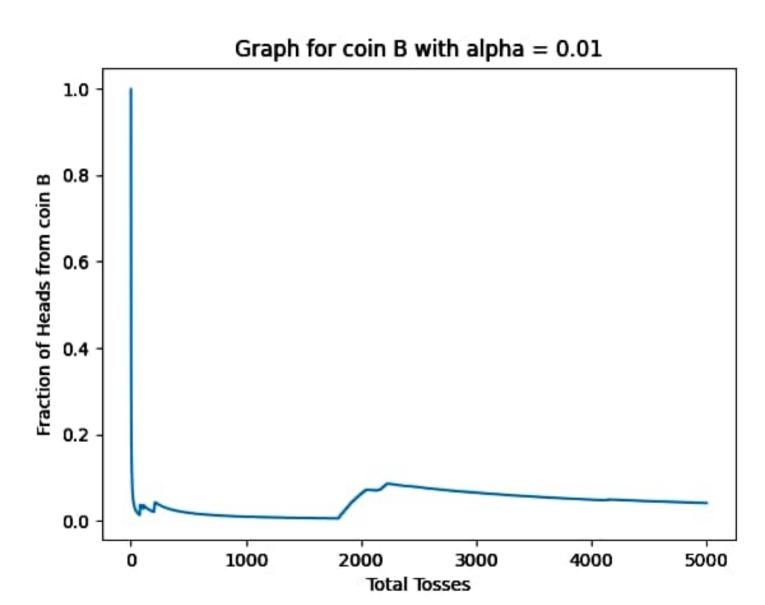












n in the random variable function, no St. positives from to tubor.

Let the no St. parities in soo tubes (to Pos) be a random sounds.

The binomial distribution

cohore ip is the individual probability of a tibe being positive

$$P = \frac{k}{10}$$

(01) Now,
$$E(los|n=k) = \sum_{n=0}^{200} x P_{k}(los=n)$$

= $\sum_{n=0}^{200} x^{200} C_{k}(\frac{k}{10})^{n} (1-\frac{k}{100})^{n}$

(i) To find.
$$P_{\nu}(P_{0S}) > F(F_{0S}) + 1/\nu = 2$$
)

For $\nu = 2$, $E(P_{0S}) = 40$
 $P_{\nu}(P_{0S}) > 41/\nu = 2$
 $P_{\nu}(P_{0S}) > 41/\nu = 2$
 $P_{\nu}(P_{0S}) > 41/\nu = 2$

(c) If Notal no. 86 hobes were 400 & tested hobes is 20, then . Pr (Pos = 9) =
$$400 \text{ Ca p}^{9} (1-p)^{9}$$

€ 0.3891

There is a mariginal (infact negligible) increase in the confidence of inference from the first case to second case. This change is primarily due to the increase in number of total tubes tested As the number of hiber tested increases, the confidence of inference tend to increase, though very marginally.