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Assignment - 3

Q-2
Ans

no. of black balls in
bag I = 6
no. of white balls in
bag II = 4
no. of black balls in
bag I = 3
no. of white balls in
bag II = 4

Let a be the event of getting black ball
H_1 probability from bag 1
H_2 " " bag 2
We use bayes theorem to find the probability

$$P(H_1/a) = \frac{P(a/H_1) * P(H_1/a)}{P(a)}$$

$$= \frac{6/10 \times 1/2}{9/17}$$

$$= 0.5666\ldots$$