

## Question-2.

Shreya Katoch  
1616991825

```
from fractions import Fraction as f
b1 = int(input("enter no. of white balls in bag 1:"))
b2 = int(input("enter no. of white balls in bag 2:"))
b3 = int(input("enter no. of black balls in bag 1:"))
b4 = int(input("enter no. of black balls in bag 2:"))

p1 = (b3 / (b1 + b3))
p2 = (b4 / (b2 + b4))
bag = f(1/2)
c = ((bag * p2) / ((bag * p1) + (bag * p2)))
print(c)
```

o/p:-

enter total no of white balls in bag 1: 4  
enter total no. of white balls in bag 2: 4  
enter total no. of black balls in bag 1: 6  
enter total no. of black balls in bag 2: 3  
0.4166666666666667.

### Question - 3

Shreya Katoch  
1610991825

from fractions. import fraction as f

p1 = int(input("Enter total no of cases when person lies death:"))

t = int(input("enter total no. of time a person speak:"))

$$p1 = f(1/6)$$

$$\text{not } p1 = f(1 - \frac{1}{6})$$

$$c = f(\frac{p2}{t})$$

$$d = f(1 - c)$$

$$a = f((p1 * c) / ((p1 * c) + (\text{not } p1 * d)))$$

print(d)

o/p  
enter total no of cases when person lies death : 2

enter total no. of time a person speak : 3

0.3333333333333333