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# EE 381 fall 2018 Midterm
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# start date 10-17-18
# Finish date 10-17-18
#-----
import random
total = 0.0
x = -1
frequency = 0.0
range_r = int(input("Enter number of trials for this experiment: "))

while(x < range_r):
    x = x+1
    print("trial ", x)

    # reset sum every iteration
    sum = 0

    # run until either one of the sum becomes 3 or 7
    while((sum != 7) and (sum != 3)):

        # r is a random decimal number between 0 and 1
        r_1 = random.randint(1,6)
        r_2 = random.randint(1,6)

        #find the sum of two random die
        sum = r_1 + r_2

        if sum == 7:
            total = total
        if sum == 3:
            total = total + 1

        print(sum, " ")

frequency = (1.0*total)/(range_r*1.0)
print("probability: ",frequency)

```