

```
# Fair-Dice throws
import random

# throw dice i times
for i in [5, 10, 100, 10000, 1000000]:

    wins = 0
    throws = int(i) # n

    for j in range(throws):
        #random number generator
        wins += int(random.randint(1,6)==6)

    print("No. of trials: {}, P(Win) : {}".format(throws, wins/throws))

    No. of trials: 5, P(Win) : 0.0
    No. of trials: 10, P(Win) : 0.2
    No. of trials: 100, P(Win) : 0.15
    No. of trials: 10000, P(Win) : 0.1681
    No. of trials: 1000000, P(Win) : 0.166326
```

✓ 1s completed at 21:55

