

Assignments for Probability 2

A 1

A fair coin is flipped 10 times. What is the probability of getting exactly 6 heads?

In [5]:

```
from scipy.stats import binom  
  
n, p, k = 10, 0.5, 6  
prob = binom.pmf(k, n, p)  
print(prob)
```

0.205078125

A 2

Assume that 45% of the population has brown eyes. If 12 people are randomly selected, what is the probability that exactly 5 of them have brown eyes?

In [6]:

```
from scipy.stats import binom  
  
n, p, k = 12, 0.45, 5  
prob = binom.pmf(k, n, p)  
print(prob)
```

0.22249823843265812