

## FINTECH CASE STUDY

## **CLASS PROJECT**

Consider a FinTech SaaS based start-up company with an estimated subscription market opportunity of 10 million subscribers that are willing to sign up and pay \$20 per month the first year. For the first year, the cost of revenue is estimated at \$3 per subscriber and operating expenses including marketing is estimated at \$2 per subscriber.

The following assumptions are for year 2-10:

| Assumptions  | Years 2-10 |
|--|------------|
| Monthly Subscription Price increase per year             | 5.0%       |
| Number of Subscribers increase per year                  | 2.0%       |
| Monthly Cost of revenue per subscriber increase per year | 3.0%       |
| Monthly Operating Cost per subscriber increase per year  | 5.0%       |
| No Tax Assumed   |            |

| Brand Terminal Value (year 10) – Multiple of EBIT (x) | 0x  |
|---|-----|
| IP Expected Return                                    | 25% |

## **IP ASSUMPTIONS:**

The present value of the development cost is initial estimated \$400 per subscription (cost per customer acquisition). The firm has the IP patent to exploit for the next 10 years.

The 10-year riskless rate is 3.0%, and the variance is 0.05 based on stock variance of similar companies' stock price.

Given this information above, calculate the value of the IP patent using the Black-Scholes pricing method: