Command Window

```
                A PROGRAM TO CALCULATE THE EUROPEAN OPTION PRICE
                        USING THE BLACK SCHOLES FORMULA

Please provide the following inputs.

Enter the current stock price:
100
Enter the strike price:
80
Enter the volatility of the asset:
0.01
Enter the risk-free interest rate:
0.05
Enter the maturity time (in years):
5
```

Command Window

```
Enter '1' if there's any dividend else enter '0'.
1

Enter '1' if the paid dividend is continuous else enter '0'.
0

Enter the number of dividends paid.
2
Enter the amount of 1th dividend.
10
Enter the payment time (in years) of 1th dividend.
1
Enter the amount of 2th dividend.
20
Enter the payment time (in years) of 2th dividend.
2

Enter '1' for the calcultion of the call option price else
'0' for the calculation of the put option price.
1

Call option price = 10.086895
```

```
CALL OPTION PRICE PLOT
Enter initial stock price:
100
Enter final stock price:
110
Enter initial time:
0
Enter final time:
5
```