Assignment #2

February 19, 2022

spring_equinox = datetime.datetime(2022,3,29,9,33)

current_date = datetime.datetime.now()

```
print('Spring Equinox this year is:', spring_equinox)
      spring = current_date < spring_equinox</pre>
      days_to_spring = spring_equinox - current_date
      if spring == True:
          print('Spring is coming in', days_to_spring.days, 'days')
          print('Spring has sprung', abs(days_to_spring.days), 'days ago')
     Spring Equinox this year is: 2022-03-29 09:33:00
     Spring is coming in 37 days
[11]: def Bond_Calculator():
          face_value = int(input('Face Value:'))
          coupon = int(input('Coupon Payment:'))
          coupon_frequency = int(input('Coupon Paid How Many Times a Year:'))
          ytm = int(input('Years to Maturity:'))
          interest_rate = int(input('Market Rate:')) / 100
          bond_price = 0
          for i in range(1,ytm+1):
              bond_price = bond_price + ((coupon * coupon_frequency) / pow((1 + 1)
       →interest_rate), i))
          bond_price = "$\{:,.2f\}".format(bond_price + (face_value / pow((1 +__)
       ⇒interest rate), ytm)))
          print('Price of the bond based on the above numbers is:', bond price)
      Bond Calculator()
```

Face Value:1000

[58]: import datetime

Coupon Payment:30

Coupon Paid How Many Times a Year:2

Years to Maturity:10

Market Rate:4

Price of the bond based on the above numbers is: \$1,162.22

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