**Bond valuation all the Metrics**

**Tata Green Energy Bond Caselet**

**Narrative**:  
Tata Green Energy Ltd. issued a bond on **February 15, 2017**, with a maturity date of **August 15, 2027**. The bond carries a **coupon rate of 5.50%** and is currently priced at ₹975 for a **face value** of ₹1,000. The required return (yield) on the bond is **7.25%**, and coupon payments are made **semi-annually**. The day count convention used is **Actual/Actual**. Additionally, the bond has a **call option** on **August 15, 2022**, with a **call premium of 5%**.

**Tasks for Students**

Based on the provided information:

1. Compute the **Current Yield** of the bond.
2. Calculate the **Yield to Maturity (YTM)** of the bond.
3. Determine the **Yield to Call (YTC)** assuming the bond is called on the first call date.
4. Compute the **Bond Duration** and **Modified Duration** to measure the bond’s price sensitivity to changes in interest rates.
5. Calculate the **Intrinsic Value** of the bond and identify whether the bond is **undervalued or overvalued** at its current price

**Reliance InfraBond Bond Caselet**

Reliance Ltd. issued a bond on **February 15, 2017**, maturing on **August 15, 2027**. The bond offers a **coupon rate of 4.75%** and is currently priced at **₹975**, with a face value of ₹1,000. Investors require a **return of 6.50%**, and the bond makes **semi-annual coupon payments** (frequency = 2) under the **Actual/360 day count convention**. The bond is callable on **August 15, 2025**, with a **call premium of 5%**.

**Tasks for Students**:

1. Compute the **Current Yield** of the bond.
2. Calculate the **Yield to Maturity (YTM)** of the bond.
3. Determine the **Yield to Call (YTC)** assuming the bond is called on the first call date.
4. Compute the **Bond Duration** and **Modified Duration** to measure the bond’s price sensitivity to changes in interest rates.
5. Calculate the **Intrinsic Value** of the bond and identify whether the bond is **undervalued or overvalued** at its current price.

**Infosys Corporate Bond Caselet**

Infosys Ltd. issued a corporate bond on **February 15, 2017**, with a maturity date of **August 15, 2027**. The bond pays a **coupon rate of 4.75%** and is currently priced at **₹975**, with a face value of ₹1,000. The **required return** on the bond is **6.95%**, and the bond pays interest **semi-annually** (frequency = 2) under the **30/360 day count convention**. The bond has a **call option** on **August 15, 2025**, with a **call premium of 4.25%**.

**Tasks for Students**:

1. Compute the **Current Yield** of the bond.
2. Calculate the **Yield to Maturity (YTM)** of the bond.
3. Determine the **Yield to Call (YTC)** assuming the bond is called on the first call date.
4. Compute the **Bond Duration** and **Modified Duration** to measure the bond’s price sensitivity to changes in interest rates.
5. Calculate the **Intrinsic Value** of the bond and identify whether the bond is **undervalued or overvalued** at its current price.

**HDFC SecureBond Caselet**

HDFC issued its **SecureBond** on **February 15, 2017**, with a maturity date of **August 15, 2027**. The bond offers a **coupon rate of 4.85%** and is currently trading at **₹975**, with a **face value** of ₹1,000. The required return on this bond is **6.85%**, and it makes **quarterly coupon payments** (frequency = 4) under the **Actual/365 day count convention**. A **call option** can be exercised on **August 15, 2022**, with a **call premium of 4.25%**.

**Tasks for Students**:

1. Compute the **Current Yield** of the bond.
2. Calculate the **Yield to Maturity (YTM)** of the bond.
3. Determine the **Yield to Call (YTC)** assuming the bond is called on the first call date.
4. Compute the **Bond Duration** and **Modified Duration** to measure the bond’s price sensitivity to changes in interest rates.
5. Calculate the **Intrinsic Value** of the bond and identify whether the bond is **undervalued or overvalued** at its current price.

**SBI Dynamic Bond Caselet**

SBI issued a **Dynamic Bond** on **February 15, 2017**, with a maturity date of **August 15, 2027**. The bond carries a **coupon rate of 6.75%** and trades at **₹975**, with a face value of **₹1,000**. The required return on this bond is **8.25%**, and coupon payments are made **semi-annually** (frequency = 2) following the **30/360 day count convention**. The bond has a **call option** on **August 15, 2022**, with a **call premium of 4.45%**.

**Tasks for Students**:

1. Compute the **Current Yield** of the bond.
2. Calculate the **Yield to Maturity (YTM)** of the bond.
3. Determine the **Yield to Call (YTC)** assuming the bond is called on the first call date.
4. Compute the **Bond Duration** and **Modified Duration** to measure the bond’s price sensitivity to changes in interest rates.
5. Calculate the **Intrinsic Value** of the bond and identify whether the bond is **undervalued or overvalued** at its current price.

**Adani Ports Bond Caselet**

Adani Ports issued a bond on **February 15, 2017**, with a maturity date of **August 15, 2027**. The bond offers a **coupon rate of 4.25%** and is currently trading at **₹975** for a face value of **₹1,000**. Investors expect a **required return of 6.50%**, and the bond pays interest **semi-annually** under the **Actual/Actual day count convention**. The bond can be called on **August 15, 2022**, with a **call premium of 3.75%**.

**Tasks for Students**:

1. Compute the **Current Yield** of the bond.
2. Calculate the **Yield to Maturity (YTM)** of the bond.
3. Determine the **Yield to Call (YTC)** if the bond is called on the first call date.
4. Compute the **Bond Duration** and **Modified Duration** to analyze price sensitivity.
5. Calculate the **Intrinsic Value** of the bond and determine if it is undervalued or overvalued at the current price.

**Bharti Airtel Corporate Bond Caselet**

Bharti Airtel issued a corporate bond on **February 15, 2017**, maturing on **August 15, 2027**. The bond has a **coupon rate of 4.75%**, trades at a price of **₹975**, and has a face value of **₹1,000**. Investors require a **return of 8.45%**, and the bond makes **quarterly coupon payments** under the **30/360-day count convention**. The bond is callable on **August 15, 2022**, with a **call premium of 6.75%**.

**Tasks for Students**:

1. Compute the **Current Yield** of the bond.
2. Calculate the **Yield to Maturity (YTM)** of the bond.
3. Determine the **Yield to Call (YTC)** if the bond is called on the first call date.
4. Compute the **Bond Duration** and **Modified Duration** to assess price sensitivity.
5. Calculate the **Intrinsic Value** of the bond and analyze whether the bond is undervalued or overvalued.

**ICICI Bank Bond Caselet**

ICICI Bank issued a bond on **February 15, 2017**, with a maturity date of **August 15, 2027**. The bond carries a **coupon rate of 4.85%** and is currently priced at **₹975** with a face value of **₹1,000**. Investors expect a **required return of 6.25%**, and coupon payments are made **semi-annually** under the **Actual/Actual day count convention**. The bond includes a **call option** on **August 15, 2022**, with a **call premium of 4.95%**.

**Tasks for Students**:

1. Compute the **Current Yield** of the bond.
2. Calculate the **Yield to Maturity (YTM)** of the bond.
3. Determine the **Yield to Call (YTC)** if the bond is called on the first call date.
4. Compute the **Bond Duration** and **Modified Duration** to measure price sensitivity.
5. Calculate the **Intrinsic Value** of the bond and identify if it is undervalued or overvalued.

**Tata Motors Debenture Caselet**

Tata Motors issued a debenture on **February 15, 2017**, maturing on **August 15, 2027**. The bond offers a **coupon rate of 6.25%** and is priced at **₹975**, with a face value of **₹1,000**. Investors require a **return of 8.45%**, and the bond pays interest **quarterly** under the **30/360 day count convention**. The bond has a **call option** on **August 15, 2022**, with a **call premium of 6.25%**.

**Tasks for Students**:

1. Compute the **Current Yield** of the bond.
2. Calculate the **Yield to Maturity (YTM)** of the bond.
3. Determine the **Yield to Call (YTC)** assuming the bond is called on the first call date.
4. Compute the **Bond Duration** and **Modified Duration** to measure interest rate sensitivity.
5. Calculate the **Intrinsic Value** of the bond and assess whether it is undervalued or overvalued.

**Power Grid India Bond Caselet**

Power Grid Corporation of India issued a bond on **February 15, 2017**, with a maturity date of **August 15, 2027**. The bond carries a **coupon rate of 6.00%** and trades at a price of **₹975**, with a face value of **₹1,000**. The bond’s **required return is 7.50%**, and coupon payments are made **semi-annually** under the **Actual/360 day count convention**. The bond can be called on **August 15, 2022**, with a **call premium of 6.25%**.

**Tasks for Students**:

1. Compute the **Current Yield** of the bond.
2. Calculate the **Yield to Maturity (YTM)** of the bond.
3. Determine the **Yield to Call (YTC)** if the bond is called on the first call date.
4. Compute the **Bond Duration** and **Modified Duration** to measure sensitivity to changes in interest rates.
5. Calculate the **Intrinsic Value** of the bond and determine whether it is undervalued or overvalued.