

Analyse the set of proposed hypothetical projects using capital budgeting techniques Net Present Value (NPV) and Internal Rate of Return (IRR) to make informed investment decisions.

New Product Launch (Tech Company)

- **Initial Investment:** ₹10,00,000
 - **Year 1:** ₹2,00,000
 - **Year 2:** ₹3,00,000
 - **Year 3:** ₹4,00,000
 - **Year 4:** ₹4,50,000
 - **Year 5:** ₹5,00,000
 - **Discount Rate:** 12%
-

2. Retail Store Expansion

- **Initial Investment:** ₹15,00,000
 - **Year 1:** ₹3,00,000
 - **Year 2:** ₹4,00,000
 - **Year 3:** ₹5,00,000
 - **Year 4:** ₹6,00,000
 - **Year 5:** ₹7,00,000
 - **Discount Rate:** 10%
-

3. New Office Building Construction (Real Estate)

- **Initial Investment:** ₹50,00,000
- **Year 1:** ₹0 (construction phase)
- **Year 2:** ₹2,00,000 (leasing starts)
- **Year 3:** ₹4,00,000
- **Year 4:** ₹6,00,000
- **Year 5:** ₹8,00,000
- **Discount Rate:** 8%

4. Renewable Energy Project (Solar Farm)

- **Initial Investment:** ₹30,00,000
- **Year 1:** ₹1,00,000 (minor cash flow from pilot phase)
- **Year 2:** ₹2,50,000
- **Year 3:** ₹4,00,000
- **Year 4:** ₹5,00,000
- **Year 5:** ₹6,50,000
- **Discount Rate:** 15%

5. Restaurant Business Launch

- **Initial Investment:** ₹5,00,000
- **Year 1:** ₹1,50,000
- **Year 2:** ₹2,00,000
- **Year 3:** ₹2,50,000
- **Year 4:** ₹3,00,000
- **Year 5:** ₹3,50,000
- **Discount Rate:** 18%

6. Manufacturing Plant Upgrade

- **Initial Investment:** ₹20,00,000
 - **Year 1:** ₹3,00,000
 - **Year 2:** ₹4,00,000
 - **Year 3:** ₹5,00,000
 - **Year 4:** ₹6,00,000
 - **Year 5:** ₹7,00,000
 - **Discount Rate:** 10%
-