

Calculation

₹ FD Details

Enter your investment details to book a new Fixed Deposit

Investment Amount (₹)

1000

Minimum investment: ₹1,000

Interest Scheme

6 Months FD - 6%

Tenure: 6 months

Interest Rate: 6.0% p.a.

Maturity Date: 27/03/2026

+ Book Fixed Deposit

🕒 Preview your investment returns

₹ Principal Amount ₹1,000

💰 Interest Earned ₹30

Tenure 6 months

Principal (97.1%) Interest (2.9%)

Principal Amount ₹1,000

Interest Earned ₹30

Total Maturity Amount ₹1,030

STATUS - MATUTRED

CASE 1 :

The formula for Simple Interest is:

$$I = \frac{ptr}{100}$$

Where:

- p is the **Principal** amount (1000).
- t is the **Time** in years.
- r is the **Rate** of interest per annum (6.0).

$$I = \frac{1000 \times 0.5 \times 6.0}{100} = 30.0$$

CASE 2 :

₹ FD Details

Enter your investment details to book a new Fixed Deposit

Investment Amount (₹)

1000

Minimum investment: ₹1,000

Interest Scheme

2 Years FD - 7%

✓ Compound Interest benefits applicable

Tenure:

24 months

Interest Rate:

7.0% p.a.

Maturity Date:

27/09/2027

+ Book Fixed Deposit

🕒 Preview your investment returns

₹

Principal Amount

₹1,000

💰

Interest Earned

₹148.88



Principal Amount

₹1,000

Interest Earned

₹148.88

Total Maturity Amount

₹1,148.88

Compound Interest Calculation

The future value (A) is calculated using the formula:

$$A = P \left(1 + \frac{r}{n} \right)^{nt}$$

1. Future Value (A)

- **Principal (P):** 1000
- **Annual Rate (r):** 0.07
- **Time (t):** 2 years
- **Compounding Frequency (n):** 4 (quarterly)

$$\begin{aligned} A &= 1000 \left(1 + \frac{0.07}{4} \right)^{4 \times 2} \\ A &= 1000(1.0175)^8 \\ A &\approx 1148.88 \end{aligned}$$

The **Simple Interest (I)** is 140.0.

$$I = \frac{1000 \times 2 \times 7.0}{100}$$

$$I = 140.0$$

$$\text{Difference} = 1148.88 - (1000 + 140.0) = 8.88$$

FD Calculator

Enter your investment details to calculate returns

Your Age

39

Interest Scheme

2 Years FD - 7.0%

Compound Interest benefits applicable (24+ months tenure)

Investment Amount (₹)

1000

Principal:

₹1,000

Rate:

7% p.a.

Tenure:

24 months

Interest Calculation Breakdown

Detailed view of your FD returns

Interest Earned

₹148.88

With Compounding

Best Maturity Amount

₹1,148.88

Compound Interest Applied

Principal Amount

₹1,000

Interest Earned

₹148.88

Total Maturity Amount

₹1,148.88

Compound vs Simple Interest

Comparison showing compound interest benefits

Compound Interest

₹148.88

Compound Maturity

₹1,148.88

Additional Earnings vs Simple Interest

₹8.88

INSERTING DUMMY DATA

Data Output

Messages

Notifications

</

Interest Earned 
₹178.88

STATUS - BROKEN

Case 1: Breaks within in 3 months (No accrued interest)

10000	2025-09-27 13:28:37.119	6	2026-03-27 00:00:00	2025-09-27 00:00:00	BROKEN
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Case 2:

isCompoundEligible && applicableMonths >= 24

compound is actually compounded quaterly(4times) per year , based on scheme whose tenure is >= 24 months

But if broken before 24months (he/she may already have compounded interest , so

In this case we recalculate and apply only simple interest up to that time period

Example : lets book compound interest and break it after 1year

Tenure: 36 months

Interest Rate: 7.5% p.a.

Maturity Date: 27/09/2028

+ Book Fixed Deposit

Principal (80.0%) Interest (20.0%)

Principal Amount ₹1,000

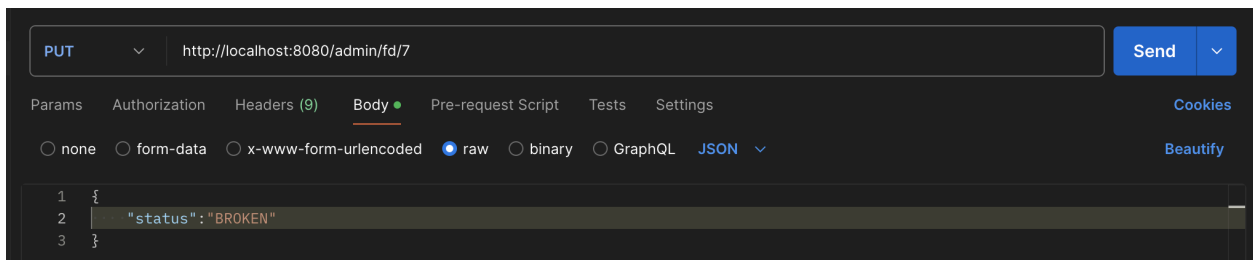
Interest Earned ₹249.72

Total Maturity Amount ₹1,249.72

Accured interest is calculated with same interets , but payout is reduced by penalty

So instead of 1249.72 , we get only 75

Postman



In Database

7	75	1000	2025-09-27 13:37:59.217	7.5	2027-09-27 12:25:37.416	2024-09-27 12:25:37.416	BROKEN
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STATUS - ACTIVE/PENDING

Case 1: Pending state goes to BROKEN state (same example as above)

Case 2: we need to calculate interest accrued until today (irrespective of maturity date)

Example : if fd is taken for 2 years , so after 1year he should be able to see half of final maturity Amount

Tenure:24 months

Interest Rate:7.0% p.a.

Maturity Date:27/09/2027

+ Book Fixed Deposit

Principal (87.0%) Interest (13.0%)

Principal Amount₹1,000

Interest Earned₹148.88

Total Maturity Amount₹1,148.88

So after one year interest earned should be 71.89

$$A = 1000 \left(1 + \frac{0.07}{4} \right)^{4 \times 1}$$
$$A = 1000(1.0175)^4$$
$$A \approx 1071.86$$

71.86	1000	2025-09-27 15:40:03.143	7	2026-09-27 00:00:00	2024-09-26 00:00:00	ACTIVE
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