



“चला तर, Coding
शिकू आपल्या भाषेत!”



Marathi Coding Shala

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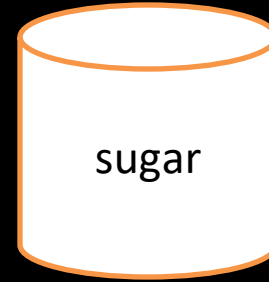
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❑ Concept of Swapping



Swapping of number with temp variable

➤ **Swapping with a Temporary Variable**

1. Start
2. Input two numbers, a and b
3. Store a in temp
4. Set a = b
5. Set b = temp
6. Output the swapped values of a and b
7. End

**Before
swapping**

a=10

b=20

**After
swapping**

a=20

b=10

Swapping of number without temp variable

➤ Swapping without a Temporary Variable

- Start
- Input two numbers, a and b
- Set $a = a + b$
- Set $b = a - b$
- Set $a = a - b$
- Output the swapped values of a and b
- End

**Before
swapping**

a=10

b=20

**Afther
swapping**

a=20

b=10

Average of marks for different subjects :

"Think Like Compiler"

- Start
- Declare variables to store the sum of numbers and the average.
- Input 5 numbers.
- Calculate the sum of the 5 numbers.
- Calculate the average using the formula:

$$\text{Average} = \frac{\text{Sum of numbers}}{5}$$

- Display the average.
- End

Enter marks for five subjects:

Subject 1: 85

Subject 2: 90

Subject 3: 78

Subject 4: 88

Subject 5: 92

Total marks: 433.00

Average marks: 86.60

Celsius to Fahrenheit :

- Start
- Input: Get the temperature in Celsius from the user.
- Convert: Apply the formula to convert Celsius to Fahrenheit:

$$F = \left(\frac{9}{5} \times C \right) + 32$$

- C is the input temperature in Celsius.
- F is the converted temperature in Fahrenheit.
- Output: Display the converted temperature in Fahrenheit.
- End

Programming with
Real-Life Example:
Celsius to Fahrenheit
Conversion

- Input:** Doctor measures body temperature in Celsius (e.g., 37°C).
- Convert:** Use the formula to convert Celsius to Fahrenheit.
- Output:** 37°C = 98.6°F.

Temperature conversion :

Conversion Formulas:

- Celsius to Fahrenheit:

$$F = \frac{9}{5} \times C + 32$$

- Fahrenheit to Celsius:

$$C = \frac{5}{9} \times (F - 32)$$

- Celsius to Kelvin:

$$K = C + 273.15$$

- Fahrenheit to Kelvin:

$$K = \frac{5}{9} \times (F - 32) + 273.15$$

Simple Interest (SI)

- **Start** the program.
- **Input** the principal amount, rate of interest, and time period from the user.
- **Calculate** the Simple Interest using the formula

$$SI = \frac{P \times R \times T}{100}$$

- **Display** the result (Simple Interest) to the user.
- **End** the program.

Imagine you invest \$1,000 in a savings account that offers an annual interest rate of 5% for 3 years. The Simple Interest (SI) can be calculated as:

- Principal (P) = \$1000
- Rate (R) = 5% per year
- Time (T) = 3 years

Using the formula, the Simple Interest will be:

$$SI = \frac{1000 \times 5 \times 3}{100} = 150$$

Thus, the interest earned over 3 years would be **\$150**.

Compound Interest (CI)

Algorithm:

1. **Start** the program.
2. **Input** the principal amount, rate of interest, and time period from the user.
3. **Calculate** the final amount (A) using the formula:

$$A = P \times \left(1 + \frac{R}{100}\right)^T$$

4. **Calculate** the Compound Interest (CI) by subtracting the principal from the final amount:

$$CI = A - P$$

5. **Display** the result (Compound Interest) to the user.
6. **End** the program.

Real-life Example:

Imagine you invest \$1,000 in a savings account that compounds annually at a rate of 5% for 3 years.

- Principal (P) = \$1000
- Rate (R) = 5%
- Time (T) = 3 years

Using the formula, the final amount (A) would be:

$$A = 1000 \times \left(1 + \frac{5}{100}\right)^3 = 1000 \times 1.157625 = 1157.625$$

Therefore, the Compound Interest (CI) is:

$$CI = 1157.625 - 1000 = 157.625$$



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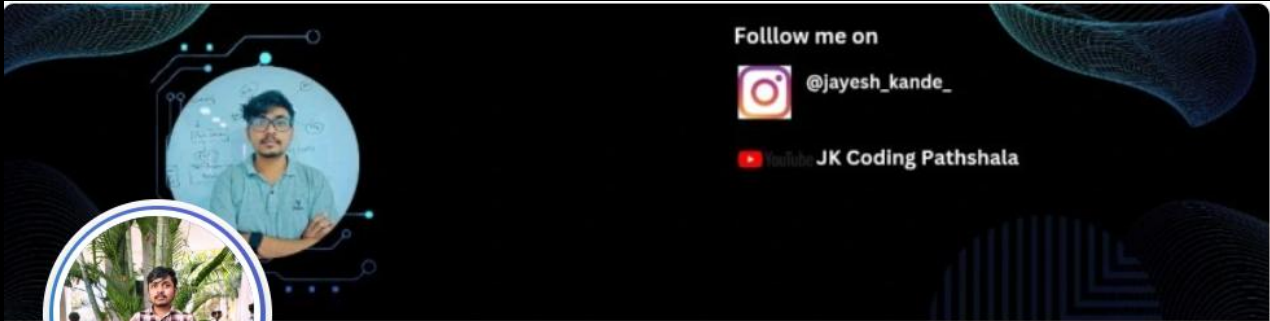


YouTuber – JK Coding Pathshala



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The banner features a dark background with blue and white geometric patterns. On the left, there are two circular profile pictures: the top one shows a man with glasses and a blue shirt, and the bottom one shows a man in a red and white checkered shirt. On the right, the text 'Follow me on' is followed by an Instagram icon and the handle '@jayesh_kande_', and a YouTube icon with the text 'JK Coding Pathshala'.

Jayesh Kande

Faculty at Coding Seekho (Offline + Online)|IT Engineering |
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