“चला तर, Coding शिकू आपल्या भाषेत!”

Marathi Coding Shala

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➢ Flow Control Statements

•Example code:

```
void main() {
   S1;
   S2;
   S3;
   S4;
 }
```

- **Default flow**: Sequential
- **Looping**: Executes multiple times (e.g., S1 → S2 → S3 in a loop)

➢ Control Flow Statements

1.Selection Statements:

- if
- if-else
- if-else if- else
- if-else if
- **Switch Statement**

2.Iterative Statements (Repetition):

- for
- while
- do-while

3.Jump Statements:

- continue
- break
- exit
- return

Syntax

```
if (expression/condition)
{
   // Code 1
}
else if (expression2/condition)
{
   // Code 2
}
else
{
   // Code 3
}
```

1. Grade Calculator

```c
#include <stdio.h>

int main() {
    float percentage;
    char grade;

    // Input: Percentage
    printf("Enter your percentage: ");
    scanf("%f", &percentage);

    // Determine grade using if-else if
    if (percentage >= 90) {
        grade = 'A';
    } else if (percentage >= 80) {
        grade = 'B';
    } else if (percentage >= 70) {
        grade = 'C';
    } else if (percentage >= 60) {
        grade = 'D';
    } else {
        grade = 'F';
    }

    // Output: Grade
    printf("Your grade is: %c\n", grade);

    return 0;
}
```

Body Mass Index (BMI)

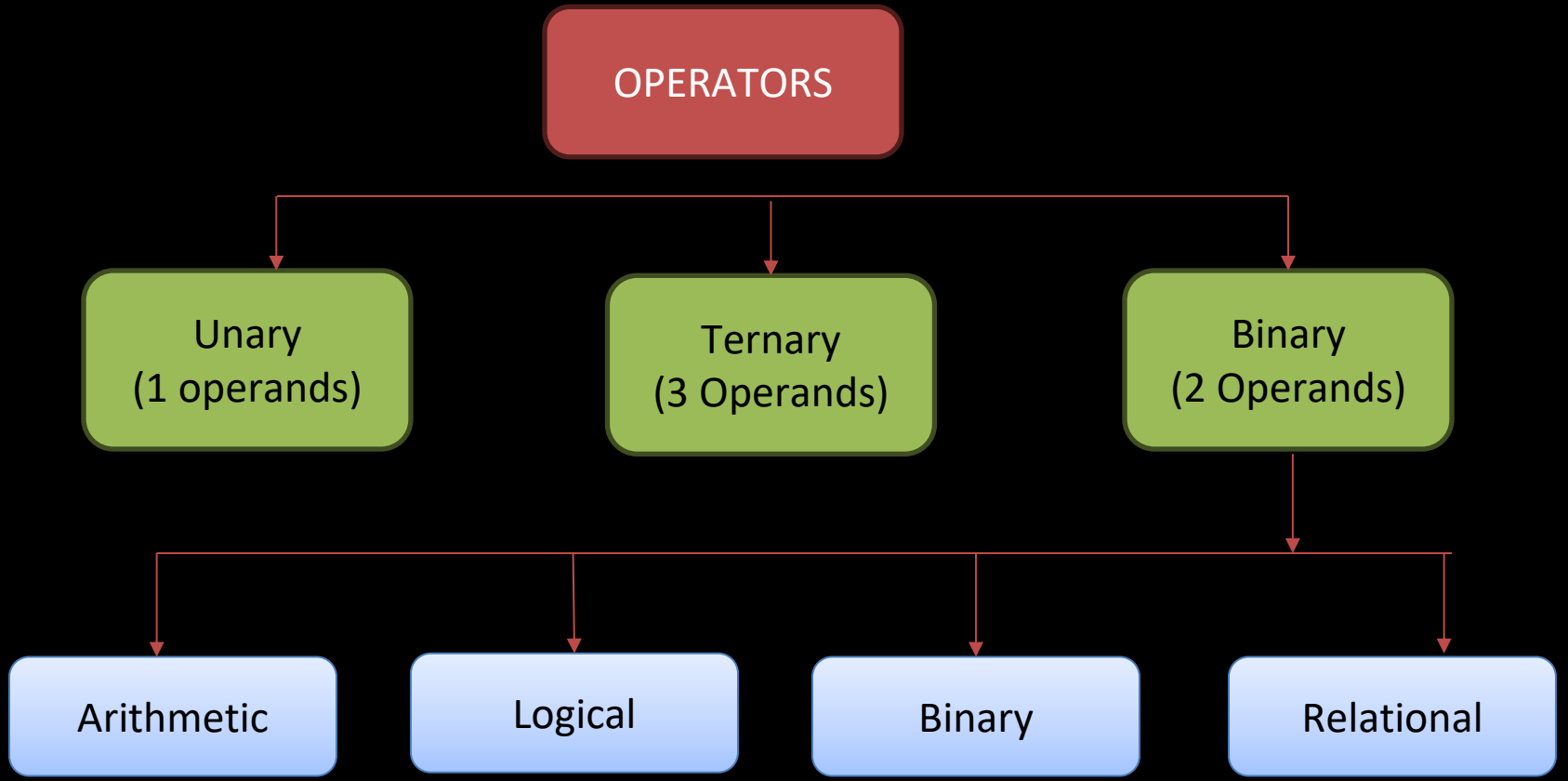
- Take **weight** (in kilograms) and **height** (in meters) as input.
- Calculate BMI using the formula:

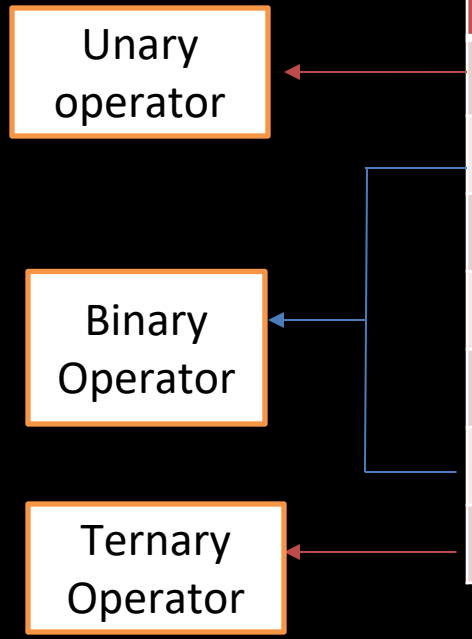
$$BMI = \frac{\text{weight}}{\text{height}^2}$$

- Classify the BMI into categories:
- Underweight (<18.5)
- Normal (18.5–24.9)
- Overweight (25–29.9)
- Obese (≥30)

```c
#include <stdio.h>

int main() {
    float weight, height, bmi;

    // Taking input from the user
    printf("Enter your weight in kilograms: ");
    scanf("%f", &weight);

    printf("Enter your height in meters: ");
    scanf("%f", &height);

    // Calculate BMI
    bmi = weight / (height * height);

    // Display the result
    printf("\nYour BMI is: %.2f\n", bmi);

    // BMI category classification
    if (bmi < 18.5) {
        printf("Category: Underweight\n");
    } else if (bmi < 25) {
        printf("Category: Normal weight\n");
    } else if (bmi < 30) {
        printf("Category: Overweight\n");
    } else {
        printf("Category: Obese\n");
    }

    return 0;
}
```

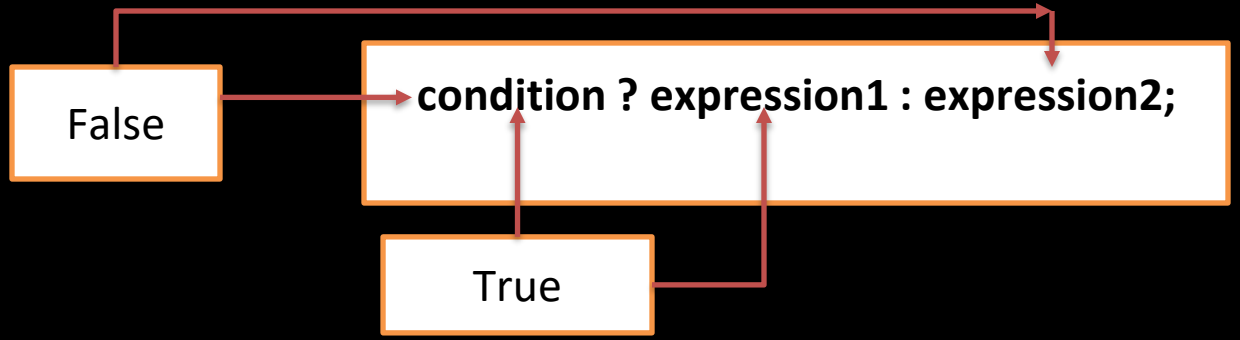
❑ Types Of Operators:





Operators	Type
++,--	Unary Operator
+,-*,/,%	Arithmetic Operator
<,<=,>,>=,==,!=	Relational operator
&&,||,!	Logical Operator
&,|,<<,>>,-,^	Bitwise Operator
=,+=,-=,*=,%=	Assignment Operator
?:	

Ternary operator(? :)



- condition: This is the boolean expression to evaluate.
- expression1: This is executed if the condition evaluates to true (no
- expression2: This is executed if the condition evaluates to false (ze

Concept:

"Ternary operator ka funda simple hai: agar condition sahi ho, to pehla value; galat ho, to dusra value!" 😄

```c
#include<stdio.h>

void main(){


    int a,b,c;
    a=10; b=20;

    //kya condition true /false?=false
    // agar condition false hai to b directly b ke pass jaynge
    //c me directly b assign ho jayga
    c=a>b?a:b;

    printf("%d",c);

}
```

a>b

10>20

false

c=b

c=a>b?a:b;

```c
#include<stdio.h>

void main(){


   int a,b,c;
   a=15; b=10;

   //kya condition true /false?=true
   // agar condition true hai  directly a ke pass jaynge
   //c me directly a assign ho jayga
   c=a>b?a:b;

   printf("%d",c);

}
```

a>b

15>20

True

C=T?a:b

C=a

c=a>b?a:b;

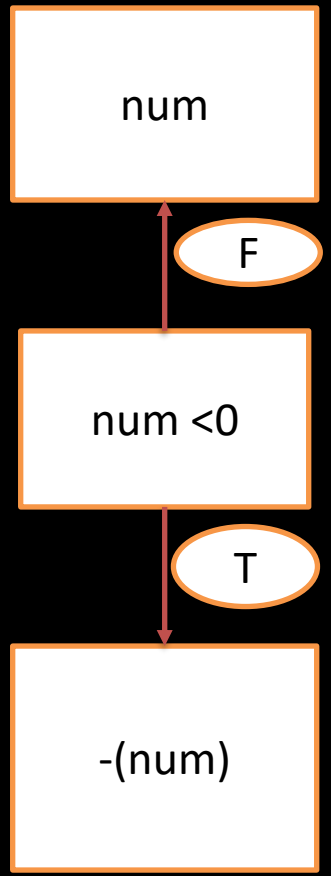
Programs

```c
#include<stdio.h>

void main(){

   int a;

    a = (10 > 7) ? (10 + 20) : (30 + 40);

    printf("%d",a);

}
```

```c
#include<stdio.h>

void main(){

   int a;
   a = (9 == 3 > 5) ? ((1 == 8 || 3) ? 10 : 20) : 30;

  printf("%d",a);

}
```

1. Finding the Absolute Value of a Number

```c
#include <stdio.h>

int main() {
    int num = -10;

    // Using ternary operator to find absolute value
    int absValue = (num < 0) ? -num : num;

    printf("Absolute value of %d is %d\n", num, absValue);
    return 0;
}
```



Assigning Grades Based on Marks

```c
#include <stdio.h>

int main() {
    int marks;

    // Prompting the user to enter marks
    printf("Enter Your Marks: ");
    scanf("%d", &marks);

    // Using ternary operator to assign grades
    char grade = (marks >= 90) ? 'A' :
                 (marks >= 75) ? 'B' :
                 (marks >= 50) ? 'C' : 'D';

    // Displaying the result
    printf("The grade for %d marks is %c\n", marks, grade);
    return 0;
}
```

Marks>=90

Marks>=75

Marks>=50

A

B

C

D

4. Finding the Smallest of Three Numbers

```c
#include <stdio.h>

int main() {
    int x = 10, y = 25, z = 5;

    // Pehle compare karo x aur y ko:
    // Agar x chhota hai y se, to ab x aur z ko compare karo.
    // - Agar x chhota hai z se, to x sabse chhota hai.
    // - Nahi to z sabse chhota hai.
    //
    // Agar y chhota hai x se, to ab y aur z ko compare karo.
    // - Agar y chhota hai z se, to y sabse chhota hai.
    // - Nahi to z sabse chhota hai.
    //
    // Iska result smallest variable mein store hoga.

    // Using nested ternary operators to find the smallest number
    int smallest = (x < y) ? ((x < z) ? x : z) : ((y < z) ? y : z);

    printf("The smallest number is %d\n", smallest);
    return 0;
}
```

X=10

Y=25

Z=5

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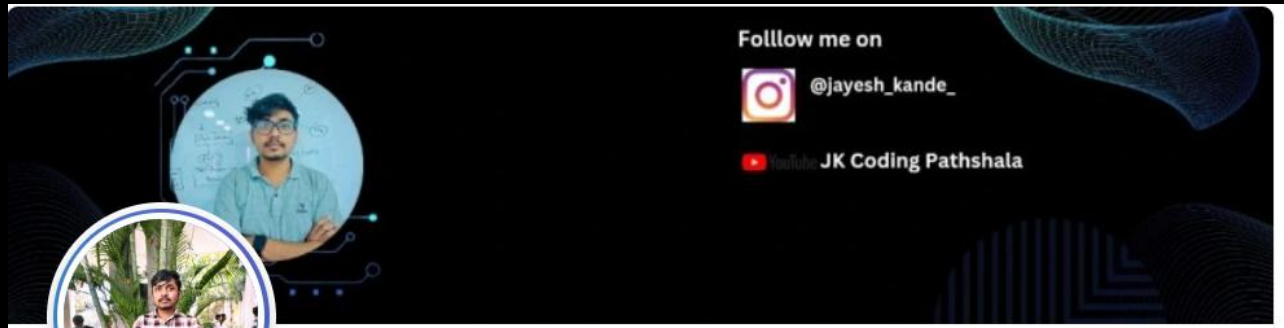

Jayesh Kande

Faculty at Coding Seekho (Offline + Online)|IT Engineering | Aspiring Web Developer | Java Enthusiast | Data Structures & Algorithms | Proficient in C, C++, Java, and MERN Stack | AI + Web Dev

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