“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

Check Voting Eligibility

- Agar **age ≥ 18** → **Eligible to vote**
- Agar **age < 18** → **Not eligible to vote**

Check if a given Year is Leap Year

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You are given an Integer **n**. Return **true** if It is a Leap Year otherwise return **false**. A **leap year** is a year that contains an additional day, February 29th, making it 366 days long instead of the usual 365 days. Leap years are necessary to keep our calendar in alignment with the Earth's revolutions around the Sun.

Note: A year is a leap year if "any one of " the following conditions are satisfied:

1. The year is multiple of 400.
2. The year is a multiple of 4 and not a multiple of 100.

Example:

Input: *n = 4*
Output: *true*
Explanation: *4 is not divisible by 100 and is divisible by 4 so its a leap year*

Input: *n = 2021*
Output: *false*
Explanation: *2021 is not divisible by 100 and is also not divisible by 4 so its not a leap year*

```c
#include <stdio.h>

int main() {
    int year;
    printf("Enter a year: ");
    scanf("%d", &year);


    if ((year % 400 == 0) || (year % 4 == 0 && year % 100 != 0)) {
        printf("%d is a leap year.\n", year);
    } else {
        printf("%d is not a leap year.\n", year);
    }

    return 0;
}
```

```c
int checkYear(int year) {
    // Return 1 if leap year, else 0
    if ((year % 400 == 0) || (year % 4 == 0 && year % 100 != 0)) {
        return 1;   // Leap year
    } else {
        return 0;   // Not a leap year
    }
}
```

Syntax

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

```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;
}
```

1. Grade Calculator

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;
}
```

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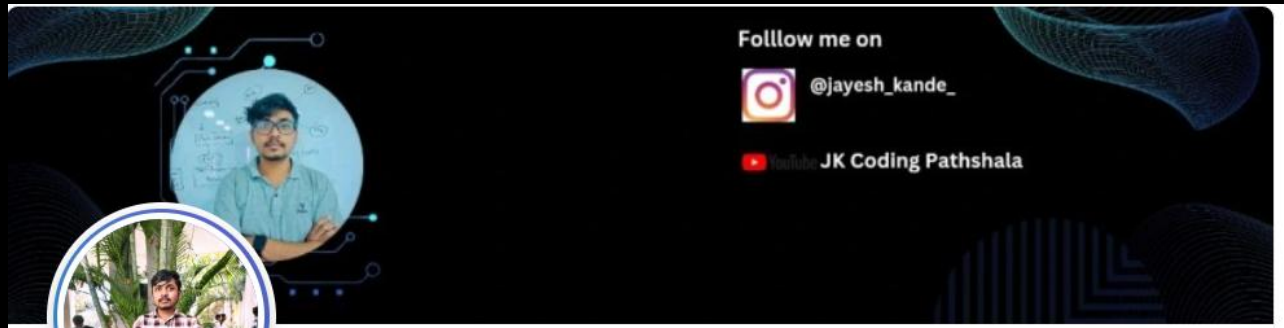

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