



“चला तर, Coding
शिकू आपल्या भाषेत!”



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➤ Flow Control Statements

- Example code:

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

- **Default flow:** Sequential
- **Looping:** Executes multiple times (e.g., $S1 \rightarrow S2 \rightarrow S3$ 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



JK ka concept

Agar yeh sach hai, toh yeh kaam karna zaroori hai!

➤ Selection Statement

If Statement

• **Default Behavior:** Sequential execution

Example:

```
void main() {  
  S1;  
  S2;  
  S3;  
  S4;  
  S5;  
  S6;  
  S7;  
  S8;  
}
```

➤ Conditional Execution:

C

```
void main() {  
  S1;  
  S2;  
  if (condition) {  
    S3;  
    S4;  
    S5;  
  }  
  
  S6;  
  S7;  
  S8;  
}
```

• **If condition** is true:

Execute S3, S4, S5

• Then continue with S6, S7, S8

Syntax

Syntax of if Statement in C

```
if (condition/expression) {  
  
    S1;  
    S2;  
    S3;  
  
}
```

Single Statement Case

```
if (condition/expression)  
    S1;  


---

  
if (condition/expression) {  
    S1;  
}
```

Program: Eligibility Checker

```
#include <stdio.h>

int main() {
    int age;

    printf("Enter your age: ");
    scanf("%d", &age);

    // Check voting eligibility
    if (age >= 18) {
        printf("You are eligible to vote.\n");
    }

    // Check senior citizen benefits eligibility
    if (age >= 60) {
        printf("You are eligible for senior citizen benefits.\n");
    }

    // General message
    if (age < 18) {
        printf("You are not eligible to vote yet.\n");
    }

    printf("Thank you!\n");

    return 0;
}
```


Program: Number Checker

```
#include <stdio.h>

int main() {
    int num;

    printf("Enter a number: ");
    scanf("%d", &num);

    // Check if the number is positive
    if (num > 0) {
        printf("The number is positive.\n");
    }

    // Check if the number is negative
    if (num < 0) {
        printf("The number is negative.\n");
    }

    // Check if the number is zero
    if (num == 0) {
        printf("The number is zero.\n");
    }

    return 0;
}
```

Program: Student Result Checker

```
#include <stdio.h>

int main() {
    int marks;

    printf("Enter your marks (out of 100): ");
    scanf("%d", &marks);

    // Check if the student scored distinction
    if (marks >= 75) {
        printf("Congratulations! You scored Distinction.\n");
    }

    // Check if the student passed
    if (marks >= 35 && marks < 75) {
        printf("You Passed.\n");
    }

    // Check if the student failed
    if (marks < 35) {
        printf("You Failed.\n");
    }

    return 0;
}
```

Program: Bank ATM Simulation

```
#include <stdio.h>

int main() {
    double balance = 5000.00; // Initial balance
    double amount;

    printf("Enter the amount to withdraw: ₹");
    scanf("%lf", &amount);

    // Check if the amount can be withdrawn
    if (amount > balance) {
        printf("Insufficient balance! Transaction failed.\n");
    }
    if (amount <= balance) {
        balance -= amount;
        printf("Transaction successful! Remaining balance: ₹%.2f\n", balance);
    }

    printf("Thank you for using the ATM!\n");

    return 0;
}
```

Program: Discount Eligibility Checker



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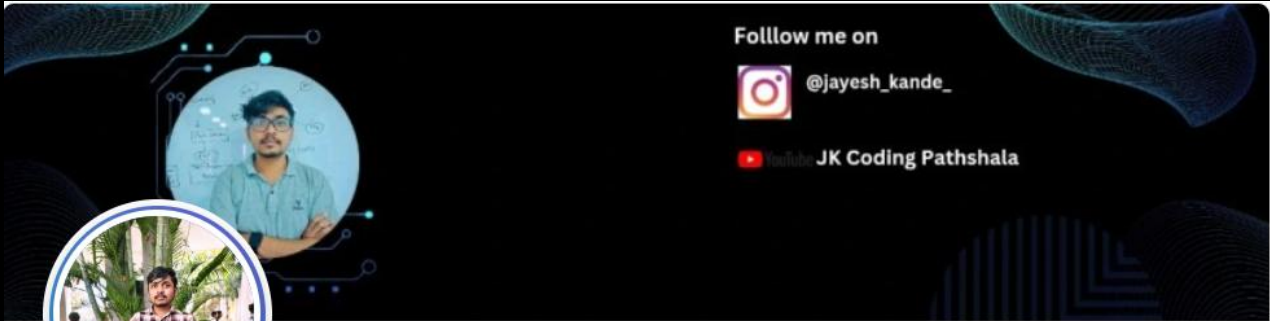


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