01.

WHAT IS

TERNARY STATEMENT?

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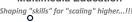*Shaping "skills" for "scaling" higher...!!!*

SELECTION STRUCTURE (CONDITIONAL STATEMENTS)

Allows the program to **make decisions** and **execute different blocks of code based on specified conditions**.

```
if statement
if else statement
ladder statement
nested statements
ternary statement
switch case
```

Let's see **Ternary Statement** in detail...

TERNARY STATEMENT

The ternary operator, also known as the conditional operator, is a **shorthand way** of writing an **if-else statement**.

It **allows you to write** a concise **conditional expression in a single line**.

Ternary operator is denoted by **?:**

(condition) **?** expression_if_true **:** expression_if_false;

Let's see comparison of **if else** and **Ternary Statement** with example

PROGRAM WITH IF ELSE

```
if(a > b)
{
    printf("a is max");
}
else
{
    printf("b is max");
}
```

PROGRAM WITH TERNARY OPERATOR

```
(a > b) ? printf("a is max") : printf("b is max");
```

OR

```
(a > b)
    ? printf("a is max")
    : printf("b is max");
```

02.

WHAT IS

SWITCH

STATEMENT?

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SWITCH STATEMENT

The switch statement is a control flow statement that **allows a variable to be tested for equality against a list of values.**

Note: Switch statement mainly used for **comparison purpose** and for creating **menu-driven programs.**

SYNTAX OF SWITCH STATEMENT

```
switch (expression) {
    case value1:
        // code to be executed if expression matches value 1
        break;
    case value2:
        // code to be executed if expression matches value 2
        break;
    // additional cases as needed
    default:
        // code to be executed if expression doesn't match any case
}
```

Let's see comparison of **ladder statement** and **switch statement** with example

PROGRAM OF LADDER STATEMENT

```c
if (grade == 'A') {
        printf("Excellent");
}
else if (grade == 'B') {
        printf("Average");
}
else {

        printf("Invalid choice");

}
```

PROGRAM OF SWITCH STATEMENT

```c
switch (grade) {
    case 'A':
        printf("Excellent");
        break;
    case 'B':
        printf("Average");
        break;
    default:
        printf("Invalid choice");
}
```

LANGUAGE

Let's start now...