

Welcome,
PROGRAMMERS



01.

What is Ternary Statement?

What is

ternary
statement?



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?

What is
Switch
statement?



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

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

Program of switch statement

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



Language

Let's start now...

