

01.

What is Ternary Statement?



What is

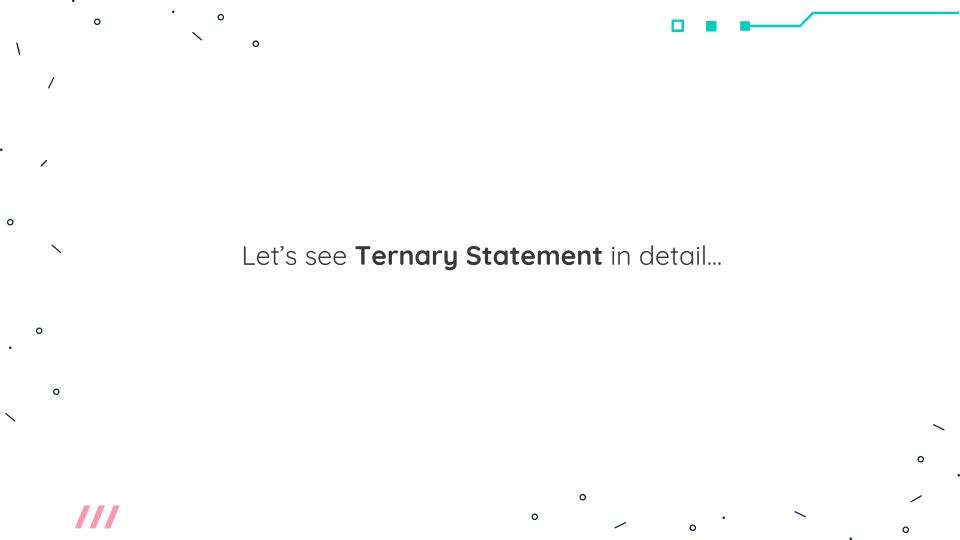
ternary statement?



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
```



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

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");
```



Let's start now...



0

