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Understanding the If Statement:

- The if statement allows you to execute a block of code only if a specified condition is true.
- The basic syntax of an if statement is:

C

```c
if (condition) {
    // code to be executed if the condition is true
}
```

- The condition is an expression that evaluates to either true or false.

Using Comparison Operators:

- Comparison operators are used to compare values in conditions.
- Common comparison operators in C include:

- == (equal to)
- != (not equal to)
- < (less than)
- > (greater than)
- <= (less than or equal to)
- = (greater than or equal to)

Using else statement:

- The else statement allows you to specify an alternative block of code to execute if the condition in the if statement is false.
- Example:

C

```c
#include <stdio.h>

int main() {
    int number;

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

    if (number > 0) {
        printf("The number is positive.\n");
    } else {
        printf("The number is not positive.\n");
    }
```

```
    return 0;
}
```

Using Else If Statement:

- The else if statement allows you to check multiple conditions sequentially.
- Here’s an example that categorizes numbers into positive, negative, or zero:

C

```c
#include <stdio.h>

int main() {
    int number;

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

    if (number > 0) {
        printf("The number is positive.\n");
    } else if (number < 0) {
        printf("The number is negative.\n");
    } else {
        printf("The number is zero.\n");
    }

    return 0;
}
```

Nesting If Statements:

- You can nest if statements within each other to create more complex conditions.
- Here's an example that checks if a number is positive, even, and divisible by 3:

C

```c
#include <stdio.h>

int main() {
    int number;

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

    if (number > 0) {
        if (number % 2 == 0) {
            if (number % 3 == 0) {
                printf("The number is positive, even, and divisible by
3.\n");
            } else {
                printf("The number is positive and even, but not
divisible by 3.\n");
            }
        } else {
            printf("The number is positive, but not even.\n");
        }
    } else {
        printf("The number is not positive.\n");
    }
```

```
    return 0;
}
```

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