4. Comments

Comments

You may have wondered why a couple of lines of code are a different color (in the below example, light brown, but it depends on the Theme you have picked):

```
//This is a C++ comment
cout << "This is regular C++ code";
```

In C++, to write notes in code without affecting its function, we can use `//` to make a **single-line comment**. Click the `TRY IT` button below to see the resulting output.

`TRY IT`

```
        Red
        Orange
        Green
        Blue
        Indigo
        Violet
        These are the colors of the rainbow!
```

Comments can also be used to help you fix your code. You can "comment out" lines of code that are not working or you suspect are causing problems.

What happens if you:
- Change `cout << "Red"` to `cut << "Red"`
- Add `//` in front of `cut << "Red"`

`TRY IT`

Block Comments

To make a **block comment** you can either make multiple single-line comments using `//` or wrap the set of lines in `/*` and `*/`. `TRY IT` below!

```
/*
This is the start of a multi-line comment.
You can end the comment with a star(*) followed by a forward slash(/).
*/

//You can also do a multi-line comment
//like this!

cout << "Notice how the comments above are lightly faded.";
cout << "Most IDEs automatically lighten the comments.";
cout << "This is a common feature known as syntax highlighting.";
```

TRY IT

```
Red
Orange
Green
Blue
Indigo
Violet
These are the colors of the rainbow!
Notice how the comments above are lightly faded.Most IDEs
automatically lighten the comments.This is a common
feature known as syntax highlighting.
```

▶ **What is an IDE?**

Printing: Reading Question 3

Fill in the blanks below about comments in C++.

In C++, the `//` symbol means a single-line comment, and the `/*` and `*/` symbols mean a multi-line comment.

In C++, the `//` symbol is used for a single-line comment. The comment begins at the `//` and goes on until the end of the line. The `/*` and `*/` symbols are used for multi-line comments. You must start with the `/*` and end with the `*/`. Everything between the start and end symbols will be considered the comment.