

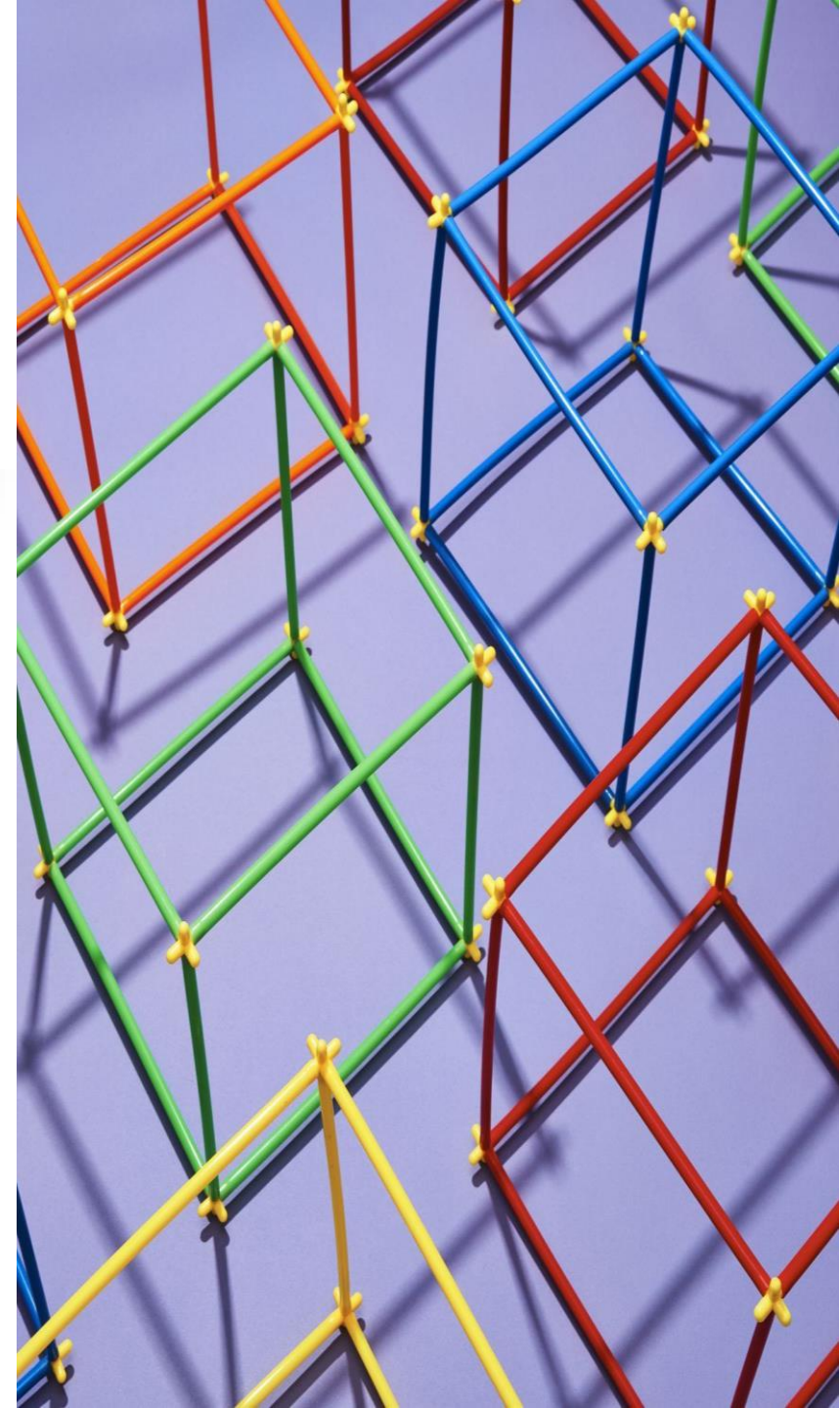


Understanding C++ Syntax

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Learning Objectives

- Identify the parts of C++ program structure.
- Write the first program using C++ language.
- Value the importance of understanding the program structure.



Review of the previous lesson

Directions:

Identify what part of C++
Integrated Development
Environment is described
in the given statement.





It is a section
of the IDE
that contains
the tools and
commands.



It is the section
of the IDE
where the
programmer
writes the
program's
source code.

-



It provides
number of
menu options
for program
development.



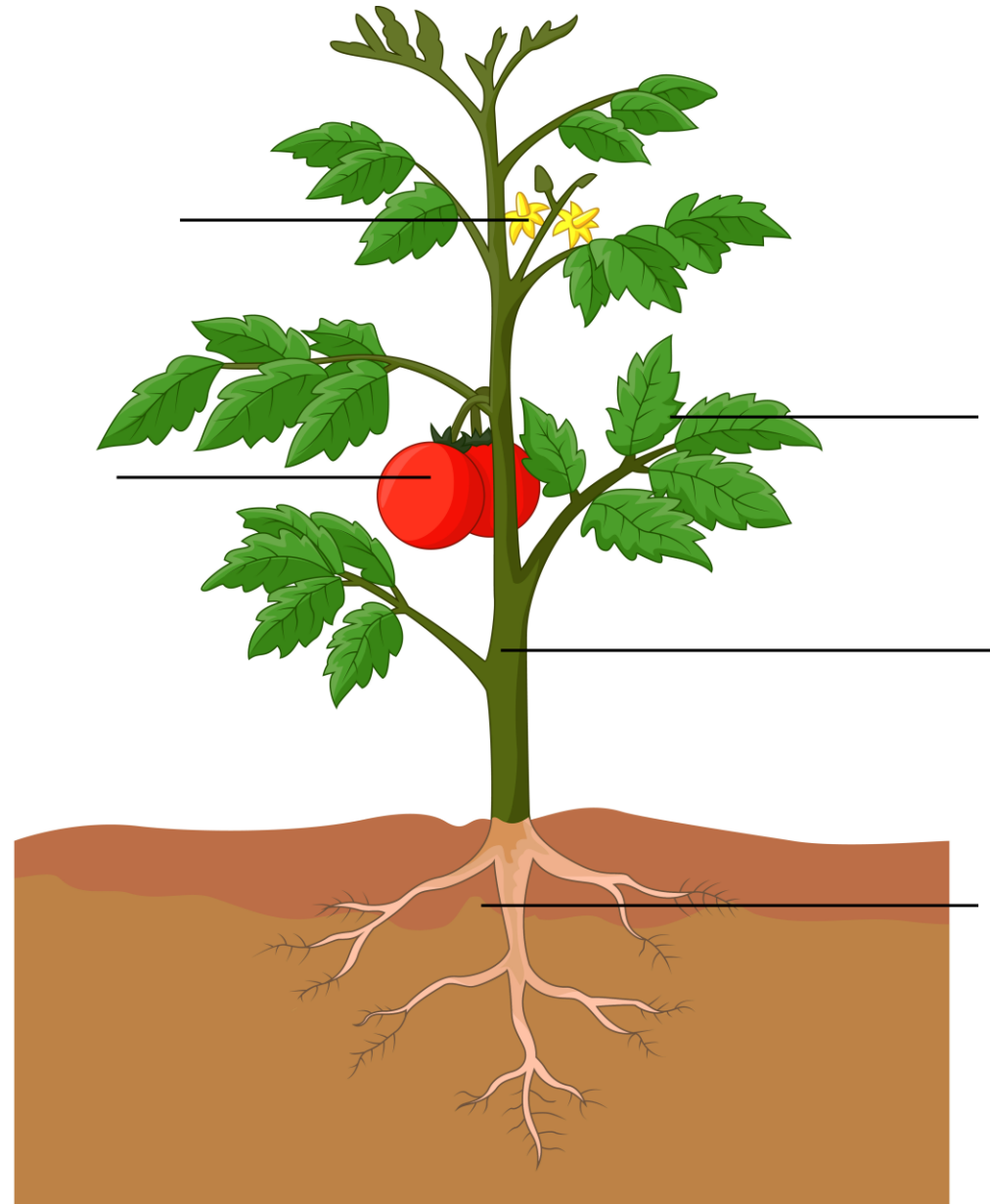
- It is a feature of the IDE that displays the results of the debugger and compiler logs.



It is used to
manage and
control the
size of the
window.

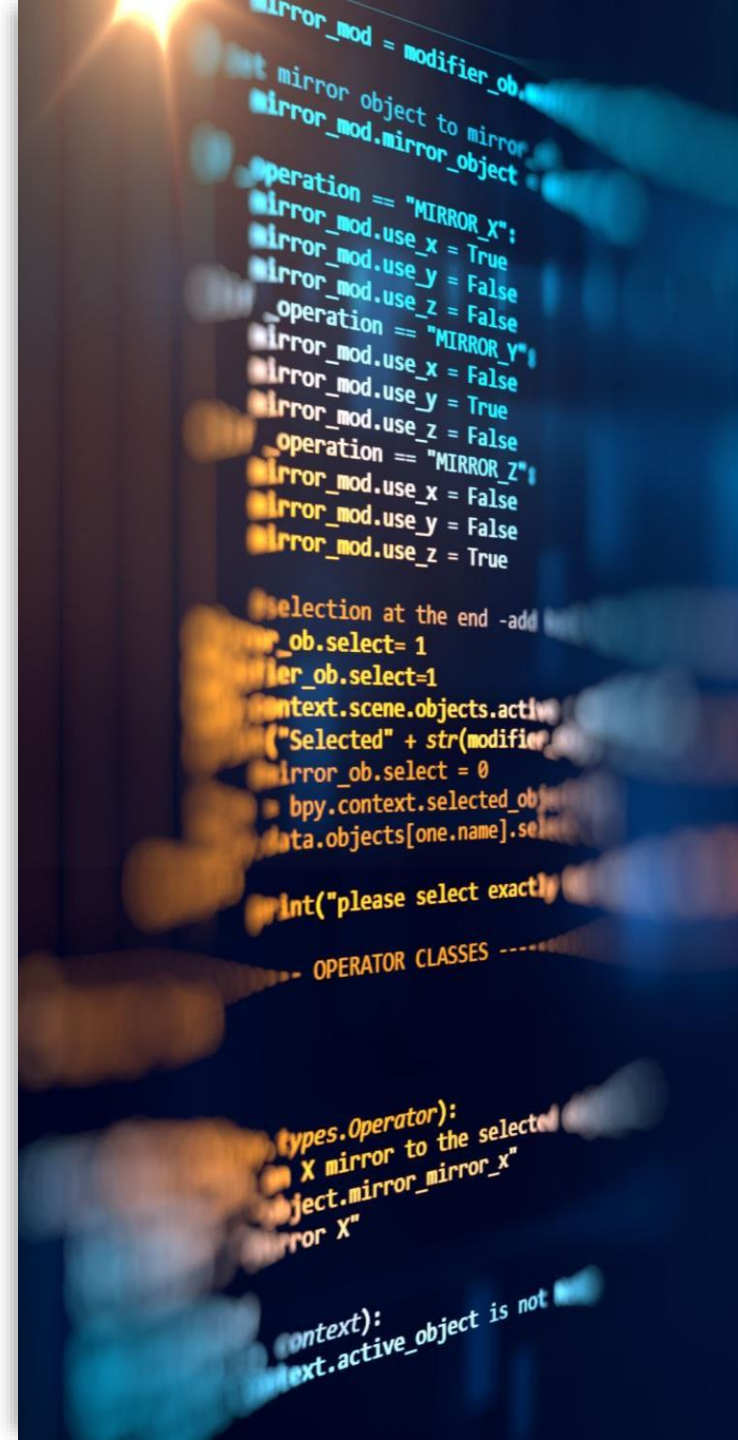
Know the Parts

Tell the parts of
the plants and its
function.



What is a program syntax?

- It is the arrangement of words and phrases to create a well-formed program code.
- It refers to the rules that control the structure of the symbols, punctuation, and words of a programming language.



C++ Program Structure

Line 1: `#include <iostream>`

Line 2: `using namespace std;`

Line 3:

Line 4: `int main(){`

Line 5: `cout<<"Hello Sir Jay";`

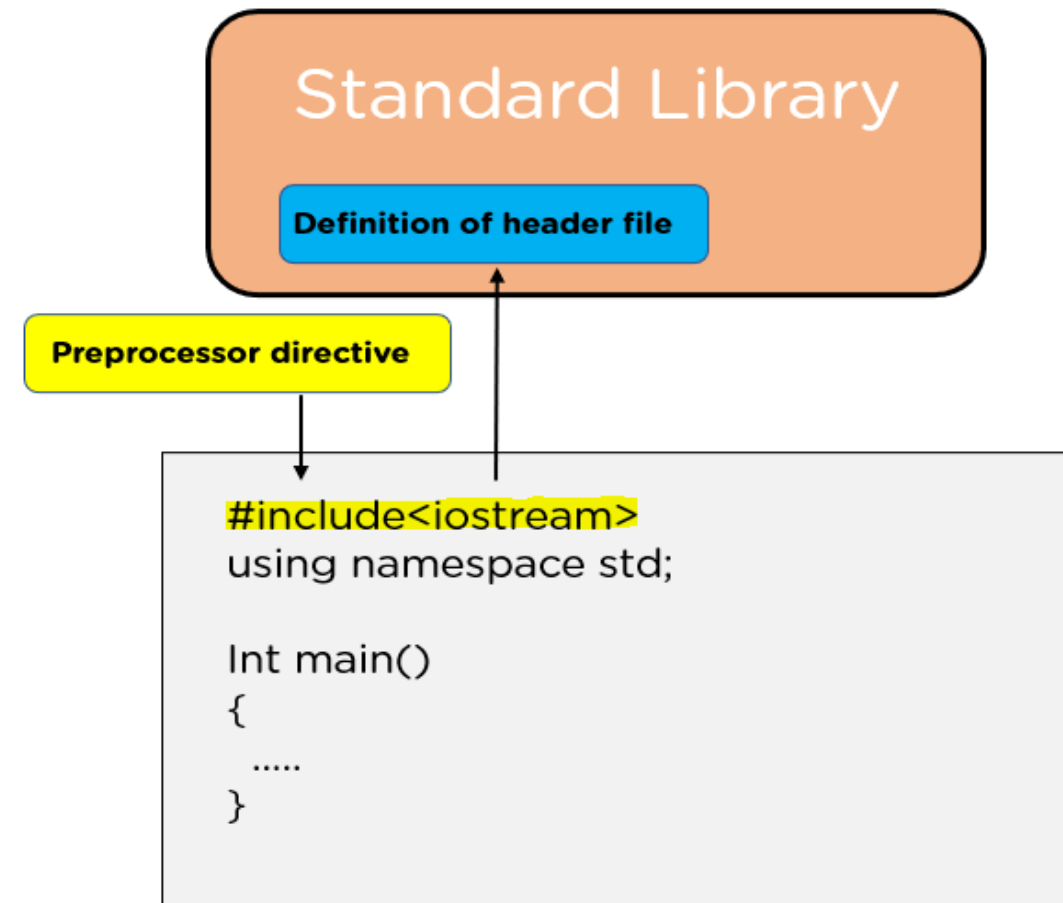
Line 6: `return 0;`

Line 7: `}`



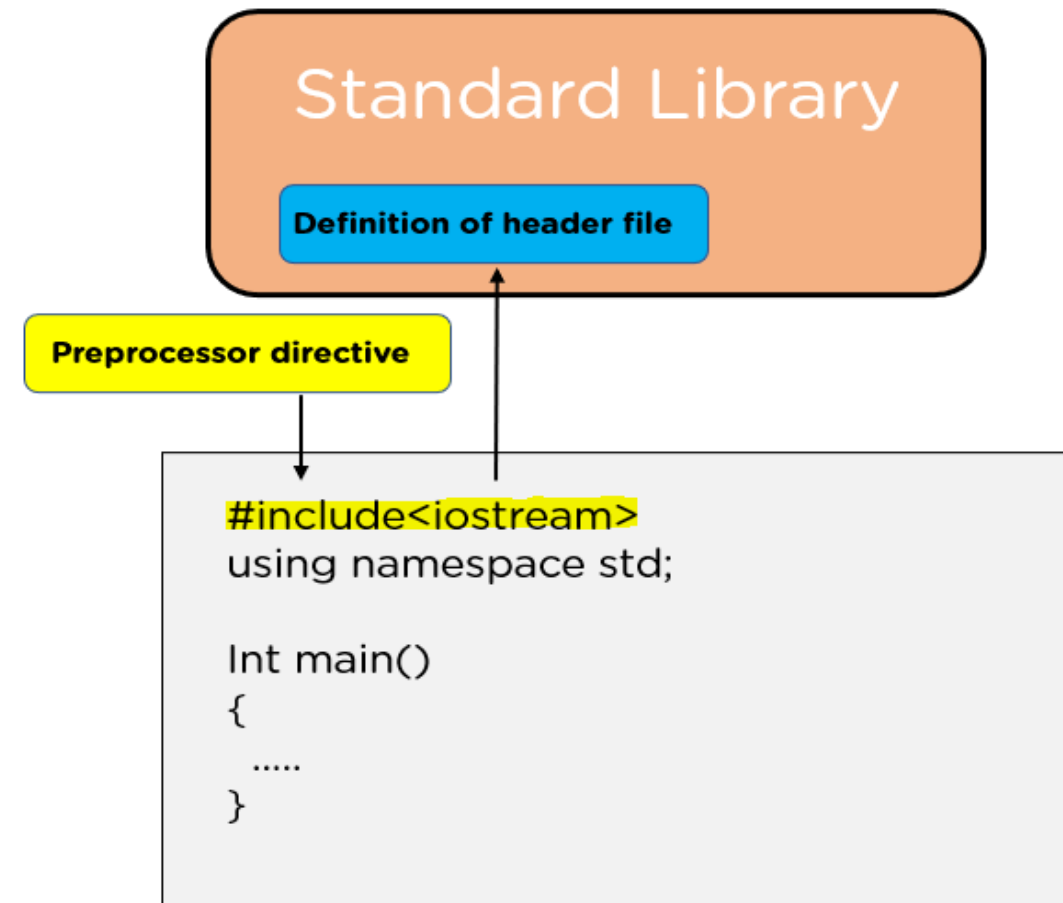
#include <iostream>

A hash sign (#) are directives read and interpreted by what is known as the **preprocessor**.



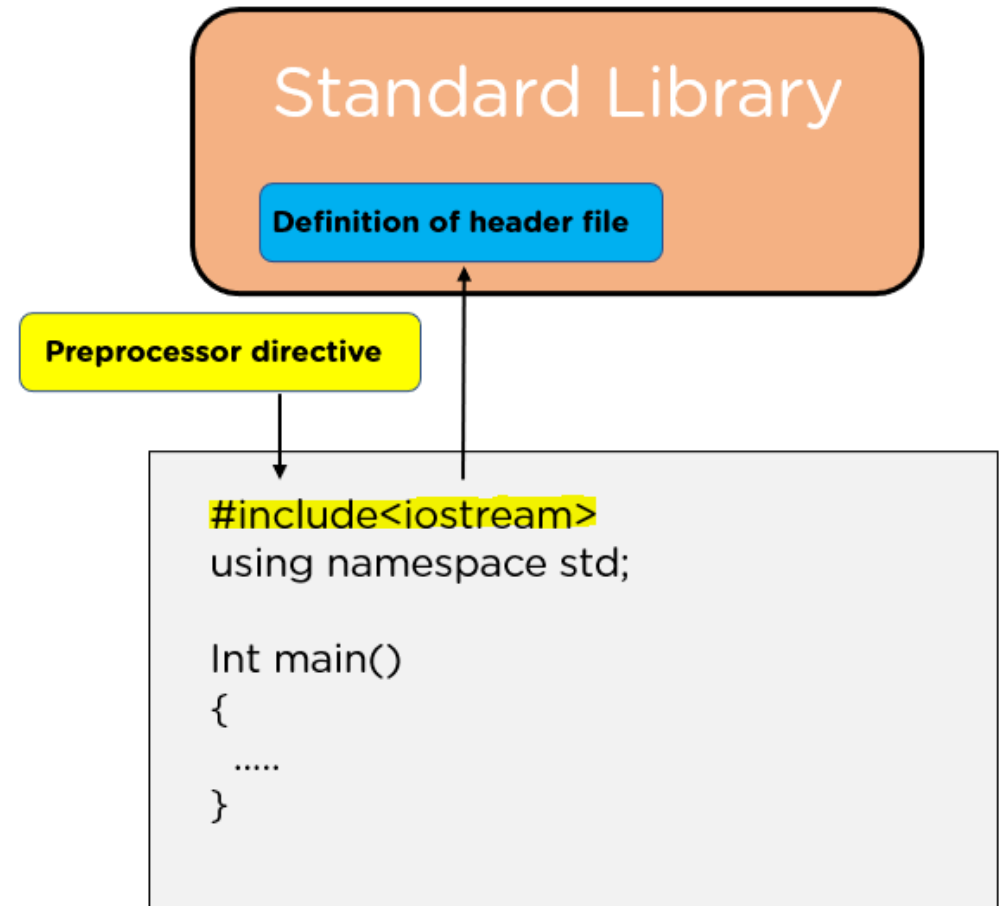
#include <iostream>

- It is a header file library that lets us work with input and output objects.



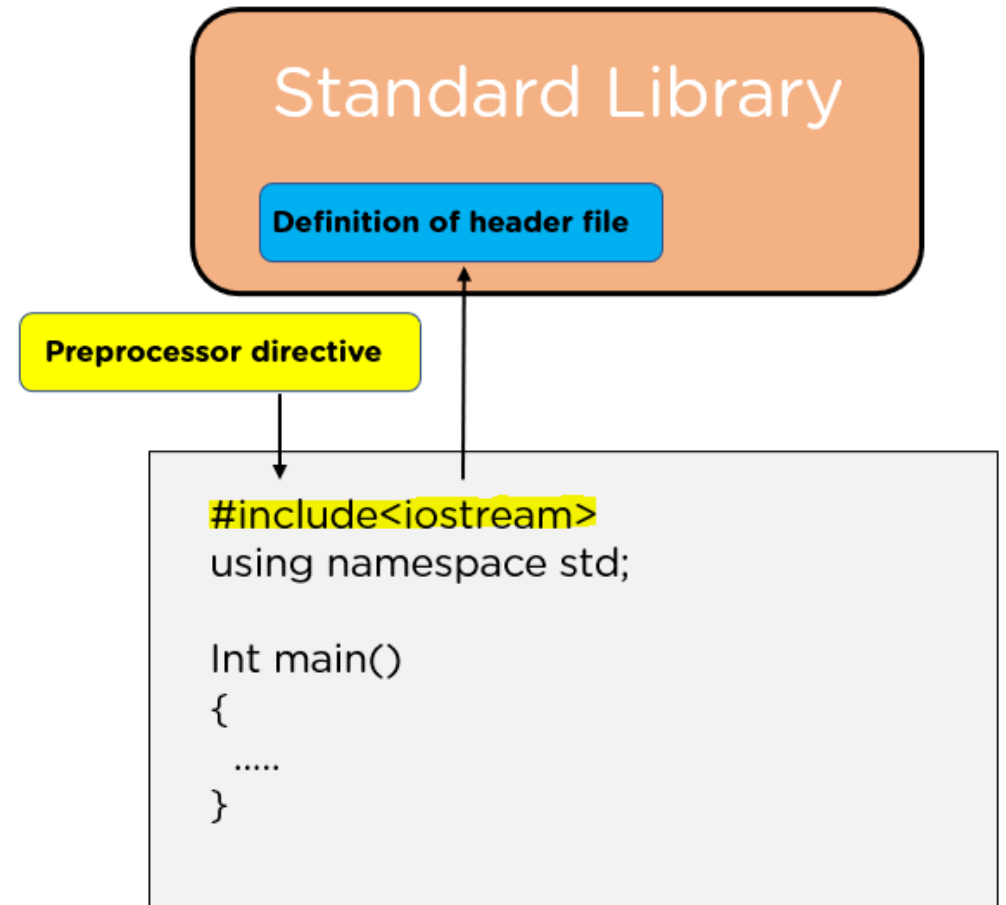
using namespace std;

It enables programmer to use names for objects and variables from the standard library.



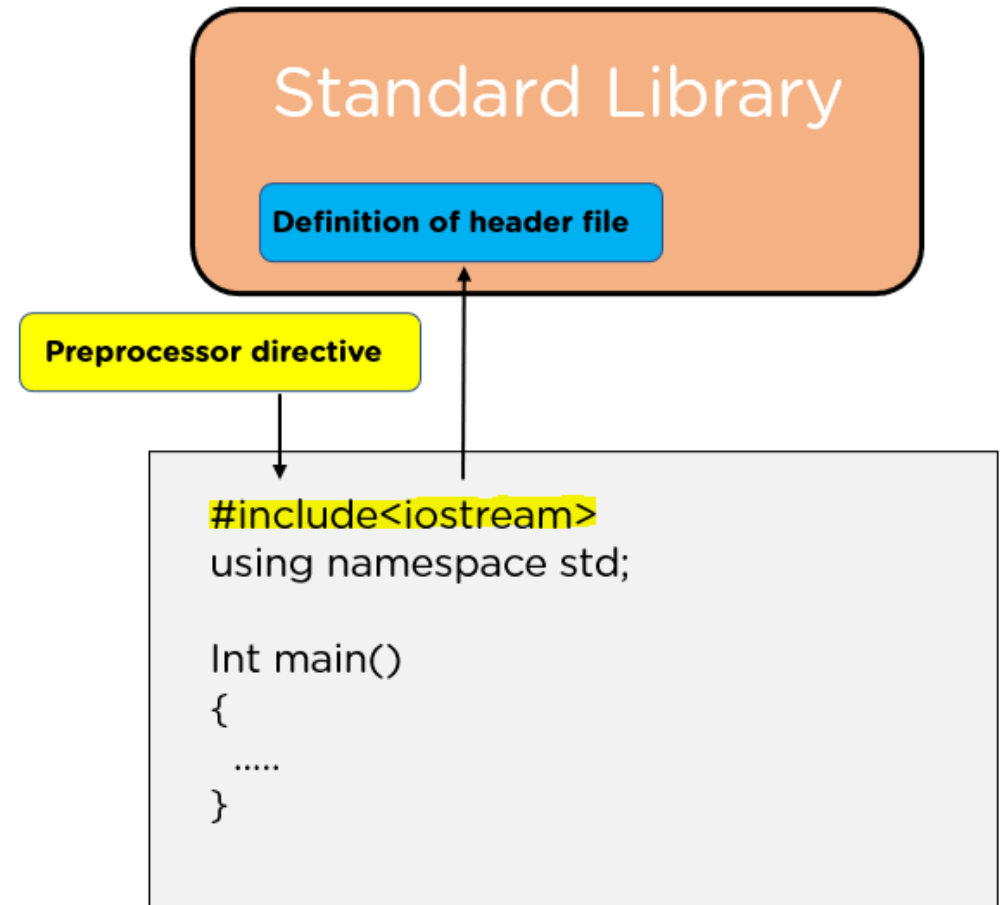
int main ()

This line initiates the declaration of a function. It is the function called when the program is run.



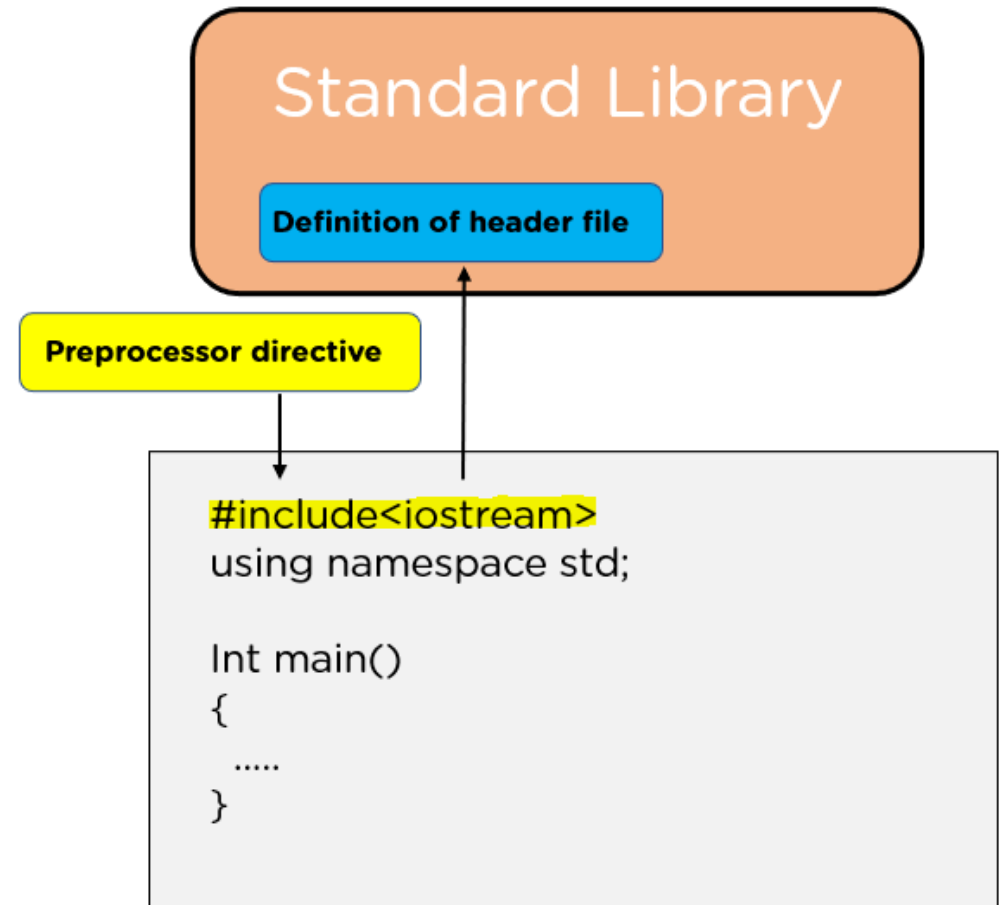
— int main ()

The execution of all C++ programs begins with the main function, regardless of where the function is actually located within the code.



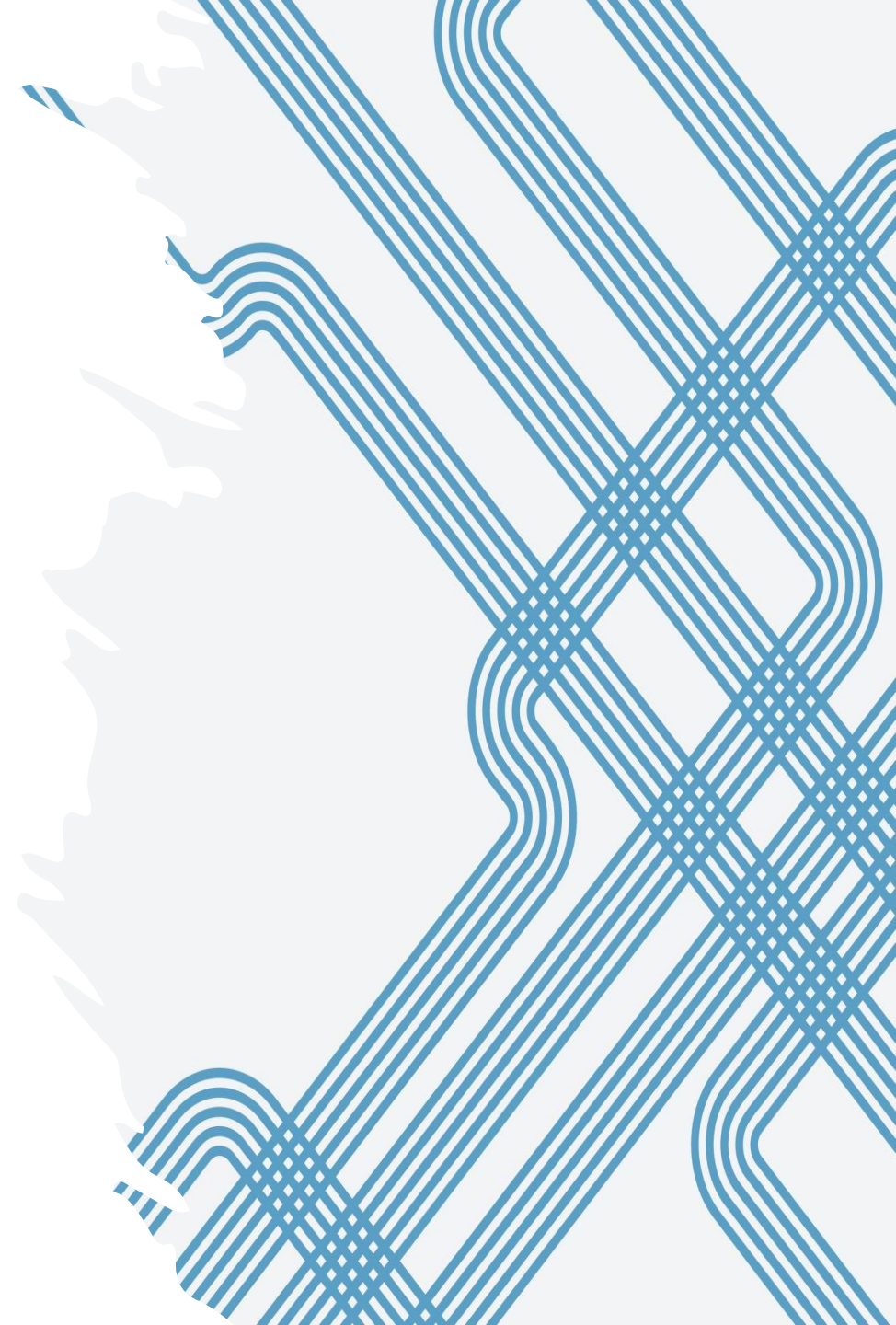
— { } open/close braces

The open brace indicates the beginning of the main function while the close brace indicates the end of the function.



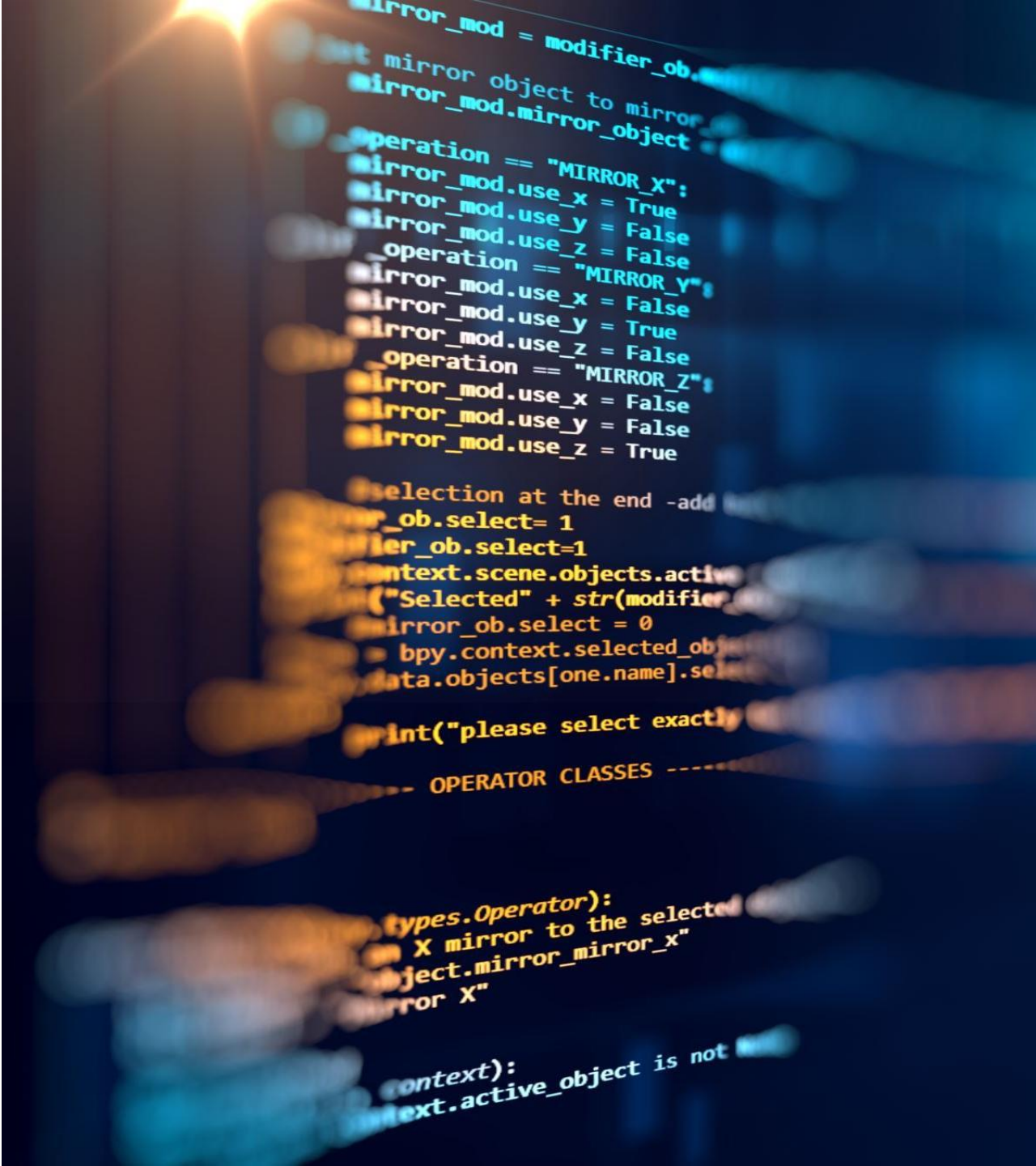
cout<< (character output)

- It is the object used to output/display/print the text. The << is the operator that signifies output.



return 0;

It indicates the end of the operation of function and returning to zero value. In C++ return 0 is optional because the compiler automatically adds return 0.





Semicolon

It is called statement terminator that indicates the end of one logical entity.

Whitespace

- It is the term used in C++ to describe blanks, tabs, newline characters and comments.
- Whitespace separates one part of a statement from another.



Hands-on

Using the basic program structure of C++, write a program that prints "Happy Birthday!"

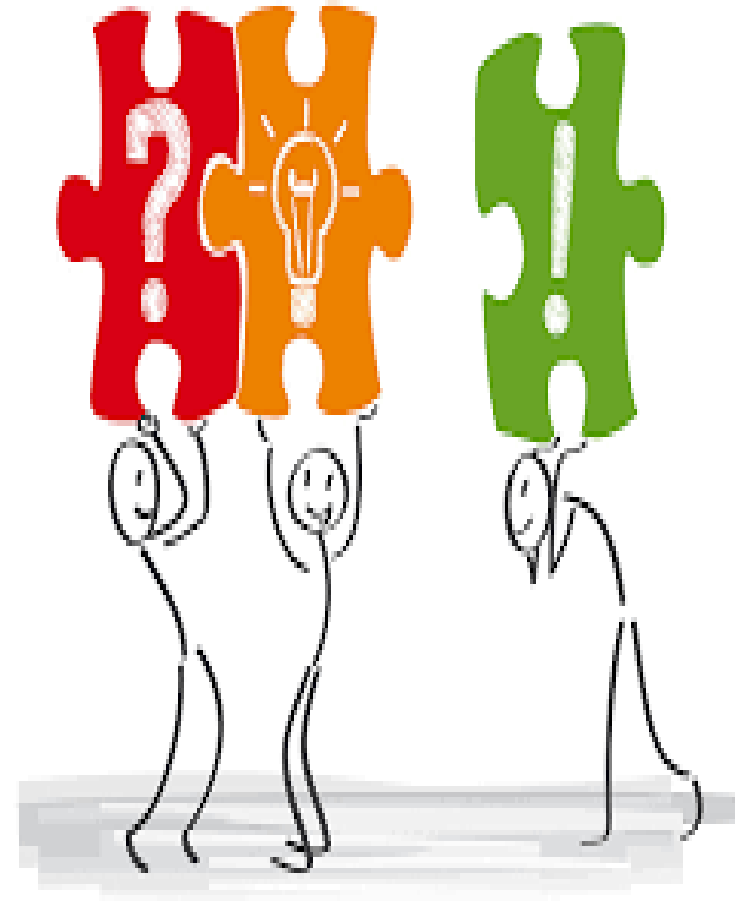


Formative Test

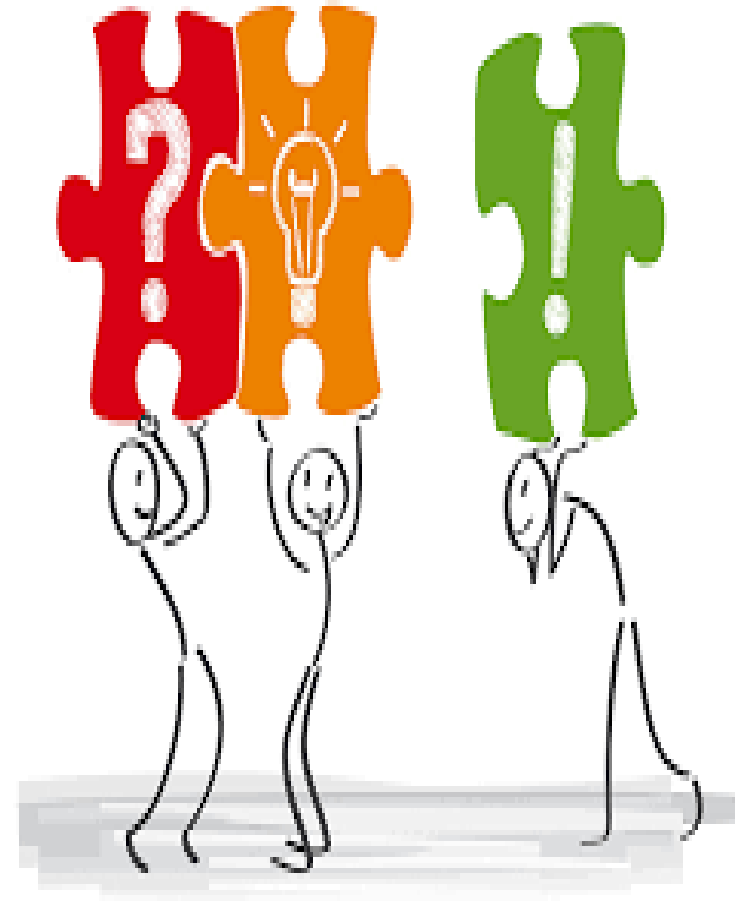
Identify the parts of the C++
program structure describe
in each statement.



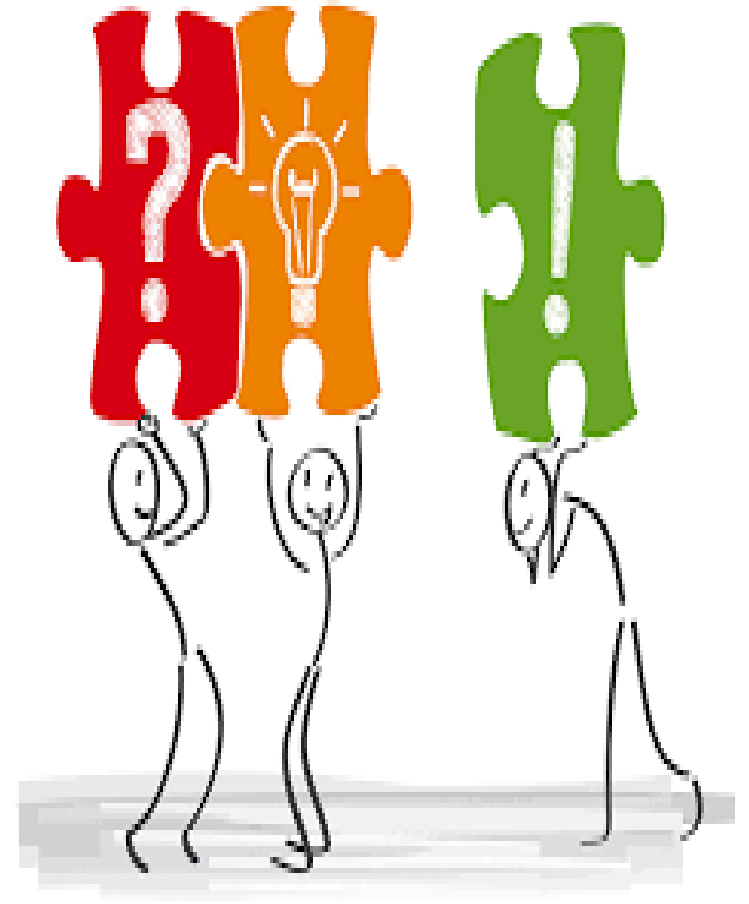
What part of
program structure is
known as a header
file library that lets
you work with input
and output objects.



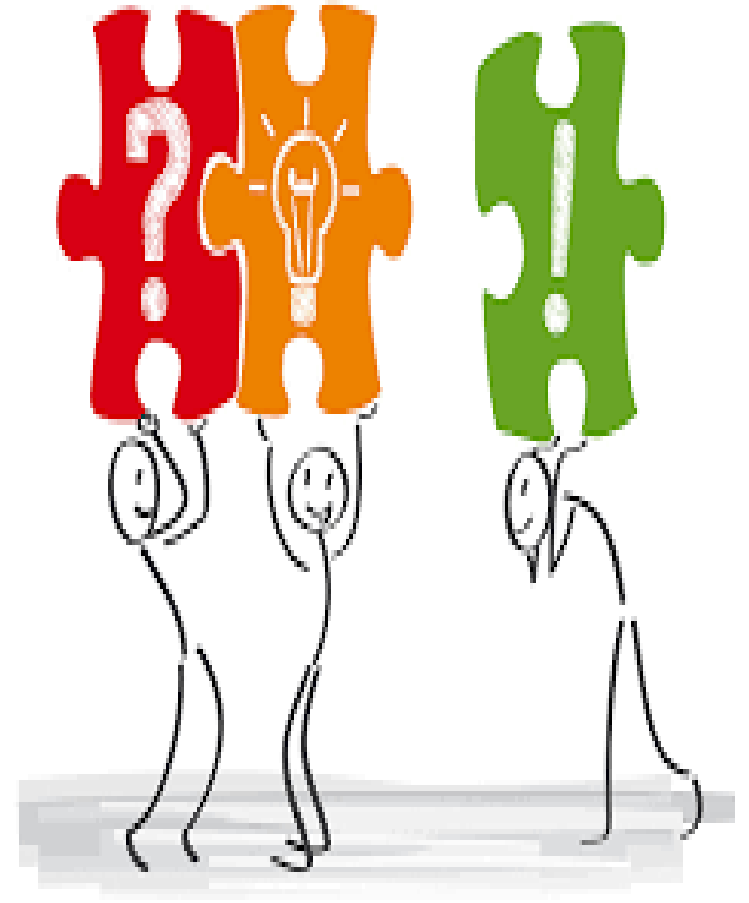
What part of the program structure enables programmer to use names for objects and variables.



What part of the program structure initiates the declaration of the function.



What is the symbol used as statement terminator that ends one logical entity?



What is the term
used in C++ to
describe blanks, tabs,
newline characters,
and comments?

