Reserved words (Keywords) in C++

- Reserved word symbols (or keywords):
  - Cannot be redefined within program
  - Cannot be used for anything other than their intended use

  Examples:
  - int
  - float
  - double
  - char
  - const
  - void
  - return

What Are C++ Key Words?

C++ keys words are words that are reserved for specific functions or tasks within C++ programs. These words **cannot** be used to name variables and will result in errors if they are not handled correctly. Click below to see a list of C++ key words.

▼ **List of C++ key words**

and	and_eq	asm	auto	bitand
bitor	bool	break	case	catch
char	class	compl	const	const_cast
continue	default	delete	do	double
dynamic_cast	else	enum	explicit	extern
false	float	for	friend	goto
if	inline	int	long	mutable
namespace	new	not	not_eq	operator
or	or_eq	private	protected	pubic
register	reinterpret_cast	return	short	signed
sizeof	static	static_cast	struct	switch
template	this	throw	true	try
typedef	typeid	typename	union	unsigned
using	virtual	void	volatile	wchar_t
while	xor	xor_eq		

Constants

- Constants are those variables whose values can not be changed

- Fix in nature

- Example:
  - 9.8
  - 3.14

Using const and #define for making constants

Literals in C++

▶ Literals are values that are assigned to variables or constants

 ▶ Integer literals

 ▶ Floating point literals

 ▶ Character literals

 ▶ String literals

 ▶ Boolean literals

Whitespaces

▶ Every C++ program contains whitespaces
  ▶ Include blanks, tabs, and newline characters

▶ Used to separate special symbols, reserved words, and identifiers

▶ Proper utilization of whitespaces is important
  ▶ Can be used to make the program more readable

Data Types

- ▶ Shows the type of Data

- Example:

- 92   (Numeric data)

- 9.8   (Decimal Data)

- A   (Character Data)

- Mujtaba (String / Wording Data)
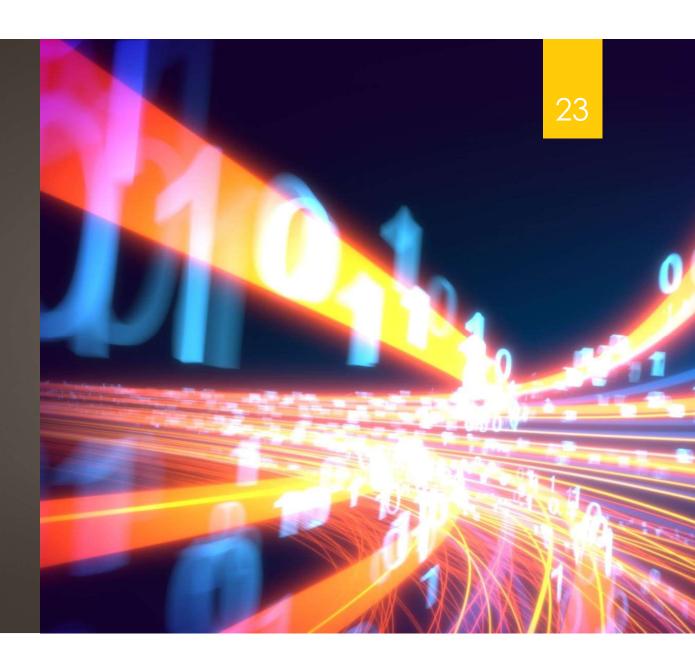
Why different data types?

Data Representation

Memory efficiency

Different operations and functions (arithmetic on Integers, Comparison on Text Values)

Data Types

▶ C++ data types fall into three categories:

  ▶ Simple data type

  ▶ Structured data type

  ▶ Pointers

Simple Data Types

- There are four simple data types in C / C++.

  - Countable data types

  - Measurable data types

  - Character data types

  - String data types