

Data Types and Namespaces

What is a Data Type?

A data type specifies the type of data that we want to deal with. It also specifies the type and size of data that a variable can store.

Example: byte, short, int, long, float, double

Base Class Library

The base Class library provides classes and types that are helpful in performing day-to-day operations e.g. dealing with string and primitive types, database connection, and IO operations.

Namespace

A namespace is a declarative region that provides a way to organize and group related Types.

Example: System.IO has file related types, System has primitive types like byte, short, int, long etc

Data Type size

1 byte = 8 bits

byte	1 byte
short	2 bytes
Int	4 bytes
long	8 bytes
float	4 bytes
double	8 bytes
decimal	16 bytes
bool	1 bit
char	2 bytes
string	2 bytes per character