DIFFERENCE BETWEEN INT AND DOUBLE IN C#

Basically, Int deals with whole numbers while Double deals with decimal number. The key difference between `int` and `double` data types in C# lies in their usage and the type of data they represent:

int (Integer):

- **Purpose**: Used to store whole numbers (no fractional or decimal part).
- **Size**: It is a 32-bit signed integer, with a range of -2,147,483,648 to 2,147,483,647.
- **Precision**: It cannot store numbers with decimal places.

Example Use Case: Counting things like the number of Apples available, number of students, pages, or items where decimals are not needed, we use int instead of double.

double (Double-precision Floating Point):

- **Purpose**: Used to store numbers that may include a fractional (decimal) part.
- **Size**: It is a 64-bit floating-point number.
- **Precision**: Can handle larger numbers and decimals (approximately 15-16 digits of precision).

Example Use Case: Measuring things like weight, height, or any situation where precision with fractions is needed. It can also be used to calculate financial transactions, but Decimal type is mostly preferred.