Assignment

1. What's the difference between a parameter and an Argument in C#?

Parameter is the variable which is part of the method's signature (method declaration of function).

An argument is an expression used when calling the method or is the actual value of this variable that gets passed to function.

1. Differentiate between primitive and non-primitive data types with examples of each.

Primitive data type: Primitive data type are used as interchangeable variables. Primitive data types are predefined types of data, which are supported by the programming language.

**Example:** integer, character, and string are all primitive data types.

Non-primitive data type: Non-primitive data types are not defined by the programming language but are instead created by the programmer. They are sometimes called “reference variables,” or “object references,” since they reference a memory location, which stores the data.

**Example:** Array, structure, union, link list, stacks, queue etc.

1. What are keywords in C#? List as many as you can.

A keyword is a reserved name that has a specific meaning and that you can’t (generally) use as an identifier.

**Examples:** abstract, add, as, ascending, by, else, if, class, join, on, override, remove, select, null etc.

1. What are data types?

A data type is type of data you are going to store in your variable.

1. What is Arithmetic overflowing, and how can we avoid it?

Arithmetic Overflow is when you perform an operation with a data type and the result of this operation exceeds the size of a storage for this datatype.

**How to avoid Arithmetic Overflow**

* First, knowing the exact ranges of every datatype.
* Based on your need, you can alter the statement inside catch block to match your requirements.