**Day 18**

**Difference Between this and super keyword**

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| **this** | **super** |
| The current instance of the class is represented by this keyword. | The current instance of the parent class is represented by the super keyword. |
| In order to call the default constructor of the current class, we can use this keyword. | In order to call the default constructor of the parent class, we can use the super keyword. |
| It can be referred to from a static context. It means it can be invoked from the static context. | It can't be referred to from a static context. It means it cannot be invoked from a static context. |
| We can use it to access only the current class data members and member functions. | We can use it to access the data members and member functions of the parent class. |

**Difference Between Method and constructor**

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| **Constructor** | **Method** |
| A block of code that initialize at the time of creating a new object of the class is called constructor. | A set of statements that performs specific task with and without returning value to the caller is known as method. |
| It is mainly used for initializing the object. | It is mainly used to reuse the code without writing the code again. |
| It is implicitly invoked by the system. | A method is called by the programmer. |
| The new keyword plays an important role in invoking the constructor. | Method calls are responsible for invoking methods. |
| It has no return type. It can or cannot return any value to the caller. | So, it has a return type. |
| The constructor’s name will always be the same as the class name. | We can use any name for the method name, such as addRow, addNum and subNumbers etc. |
| A class can have more than one parameterized constructor. But constructors should have different parameters. | A class can also have more than one method with the same name but different in arguments and datatypes. |
| Sub-class cannot inherit parent class constructor. | Sub-class can inherit the method of the parent class. |