What is Maven?

Maven is a build tool that helps in project management. The tool helps in building and documenting the project.

Maven is written in java and c# and is based on the Project Object Model (POM)

The tool is used to build and manage any java-based project, It Simplifies the day to day work of java Developers and helps them in their projects

What is build tool?

Build tool is essential for the process of building. It is needed for the following processes;

* Generating source code
* Generating documentation from the source code
* Compiling of source code
* Packaging of the complied codes into JAR files
* Installing the packaged code in local repository, server or central repository.

What is POM?

POM is an XML file that has all the information regarding project and configuration detail

When we tend to execute a task, Maven searches for the POM in the current directory.

Need for Maven.

Maven is chiefly used for java based projects. It helps in downloading dependencies, which refers to the libraries or JAR files.

Problems that Maven solved:

Getting right JAR files for each project as there may be different versions packages

To download dependencies visiting of the official website of defferent software is not needed. We can Just visit “mavenrepository.com”

Helps to create the right project structure which is essential for execution

Building and Deploying the project to make is work

What Maven Does?

It simplifies the process of building the project

The task of downloading jar files and other dependencies does not need to be done manually

It Provides easy access to all the required information

Apache Maven helps manage all the processes, such as building documentation, releasing, and distribution in project management.