Webpack:

* Webpack is a static module bundler.
* Modules are reusable chunks of code built from JavaScript, CSS, node modules, and images.
* Webpack is used to process JavaScript and json files. It bundles all dependent JavaScript files into one file using the dependency graph.
* If one file depends on another webpack treats this has a dependency.
* Dependency graphs tells how modules relate to each other using references between file.
* Webpack uses loaders, to bundle static resources like CSS, html and assets file.
* Webpack has 5 principal’s i.e., entry, output, loaders, plugins, and mode

1. Entry:

Entry is the entry point for the application. It is the first module that webpack starts building the dependency graph.

The default entry point in applications is ‘./src/index.js’ .

Entry point can be modified has required in webpack.config.js file

1. Output:

Output point is where the output files are stored after bundling

Default files are written to the ‘./dist/main.js’ output path.

1. Loaders:

Webpack uses loaders to process other file types by converting them into modules

Loaders are specified in the module key under rules.

1. Plugins:

Plugins handle the additional tasks that can’t handle by a loader. Plugins are used in cases like bundle minimization and optimizations

1. Modes:

Mode tells the which configuration to use for applications. Modes are development, production or none.

Ng build:

* Ng build command is used to compile angular app into the specified output directory.
* Ng build command must execute in project directory itself.
* Ng build command is used to build project application or a library.
* Project type of application uses the webpack build tool with the default configuration options specified in the workspace configuration file.
* Default values for options can be changed by using command line by specifying the option and its corresponding value.

Deploying angular project on server:

* Ng deploy command is used to deploy the project
* Ng deploy command executes the deploy CLI builder associated with the project.
* Third party builders are added to the project using ng add [package name].