**Java URL class:** (a pointer to a resource on www, a resource can be a file, folder, reference object to as query to database or a search engine).

* represents a *Uniform Resource Locator*, a *pointer* to a *resource* on the www.
* A resource can be something as simple as a file, a directory, (or)
* It can be reference to a more complicated object, such as query database/a search engine.
* URL class provides methods to obtain details about URL.



Protocol: it is http, Host Name or Server name: IP Address + Port Number, Port Number: is optional, if not mentioned it return -1.

File name or directory name: it is an index file.

Constructors of URL class:

URL(String spec) – creates an instance of URL of defined String.

URL(String protocol , String host, int port, String file) - creates instance of all parameters.

URL(String protocol , String host, int port, String file, URLStreamHandler handler)-

URL(String protocol, String host, -String file) –

URL(URL context, String spec) –

URL(URL context, String spec, URLStreamHandler handler) –

**Commonly used URL methods:**

**URL url=new URL(“** <https://www.google.com/>”**);**

public String getProtocol() it returns the protocol of the URL.

public String getHost() it returns the host name of the URL.

public String getPort() it returns the Port Number of the URL.

public String getFile() it returns the file name of the URL.

public String getAuthority() it returns the authority of the URL.

public String toString() it returns the string representation of the URL.

public String getQuery() it returns the query string of the URL.

public String getDefaultPort() it returns the default port of the URL.

public URLConnection openConnection() it returns the instance of URLConnection i.e. associated with this URL.

public boolean equals(Object obj) it compares the URL with the given object.

public Object getContent() it returns the content of the URL.

public String getRef() it returns the anchor or reference of the URL.

public URI toURI() it returns a URI of the URL.