2-tier application

Presentation - browser	Tomcat-servlet BL

1. Servlet is used to dynamically create HTML ,
         Servlet adds the HTML to RESPONSE (**HttpServletResponse** ----- Java object)
         Response is sent to browser as **Http Response** by TOMCAT Server

2. To use Servlet to connect to the database
         3-tier application
         Browser **---------------**Tomcat(Servlet)**-------------------------**>MySQL

Exercise -----
1. Web Project
      a. Write a AddProductServlet ---- doGet ---that shows the fields for productId , product
          name and cost

                       add a submit button

                       doPost of this servlet ---- collect the data entered by user and pass it
                       to the DAO
                                  DAO ---- insert the record in the table

When no action is given in the form then the page goes to the same url (same servlet)!!!!
When no method is given in the form then the GET method is default so doGet is called !!!

PROBLEM : We get class not found exception as the driver is not found !!!
SOLUTION : copy the mysql connector jar file in **lib** folder !!!

Write a Servlet to show the cube of entered number !!!!!!

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Servlet Life Cycle ------------

      API structure

      Two packages that contain servlet related classes---------------
               javax.servlet. *
               javax .servlet.http. *

      Base class - **GenericServlet**   implements **Servlet**
               HttpServlet extends **GenericServlet**

               All our servlets are subclasses of HttpServlet -------
                ShowServlet extends HttpServlet
                MyServlet extends HttpServlet

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Servlet Container manages the **life cycle** of each servlet object !!!!

      Life cycle includes

1. **Create** object of the servlet (constructor)
2. After instance creation **call init()** method
3. Wait for request from browser ---
             Depending on the request **call doGet()** or **call doPost()**

4. before undeploying the web application **call destroy()**

FOR **one servlet** class the servlet container creates **ONLY ONE OBJECT**

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      Destroy method is used to ----- the codes to cleanup release resources , log data , save data in DB

                Just before the servlet is undeployed !!!!