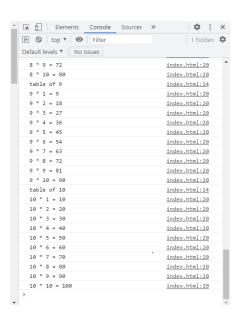
Web Engineering Practical File

Kapil Dev 02510102718 Btech CSE 6th SEM Practical 1: Using JavaScript demonstrate Nested loop.

CODE:





Practical 2: Validate the Registration, user login, user profile and payment by credit card pages using JavaScript.

CODE:

```
}

if (!/^[a-zA-Z0-9.!#$%&'*+/=?^_`{|}~~]+@[a-zA-Z0-9-]+(?:\.[a-zA-Z0-9-]+)*$/.test(email.value))

{
    alert("enter valid email")
    return false
}

if (!/^(\\d{1,3}[-]?)?\d{10}\$/.test(mobile.value)){
    alert("Invalid Mobile")
    return false
}

if (!/^(?:4[0-9]\{12\}(?:[0-9]\{3\})?\[25][1-7][0-9]\{14\}\[6(?:011\]5[0-9][0-9]\[0-9]\{12\}\]3[47][0-9]\{13\}\]3(
    ?:0[0-5]\[68][0-9]\[0-9]\{11\}\(?:2131\]1800\]35\d{3\}\\d{11\}\$/.test(credit.value))\{
    alert("wrong Credit Card Number")
    return false
}

console.log("all OK")
alert("All Validate")

//script>
//html>

//script>
//html>
```

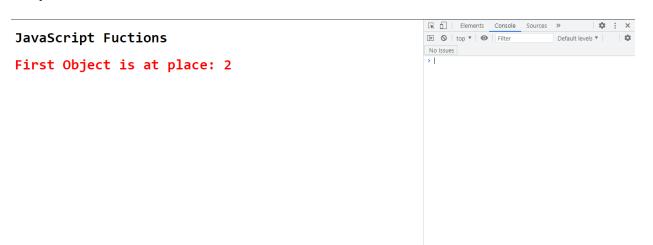


Practical 3: Develop and demonstrate a XHTML file that includes JavaScript that uses functions for the following problems:

a) Parameter: A string Output: The position in the string of the left-most vowel.

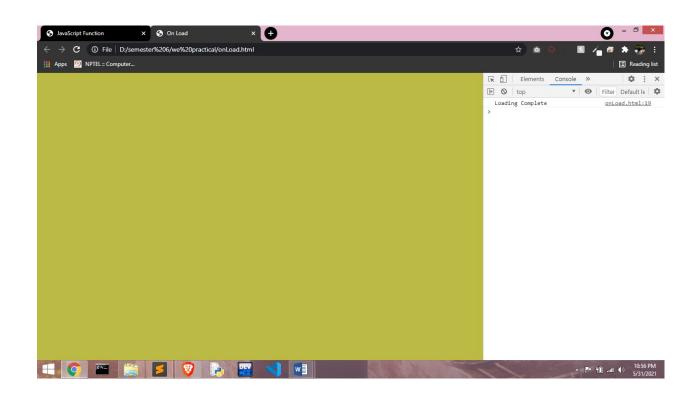
b) Parameter: A number

Output: The number with its digits in the reverse order



Practical 4: Using JavaScript demonstrate fade from one color to another on load.

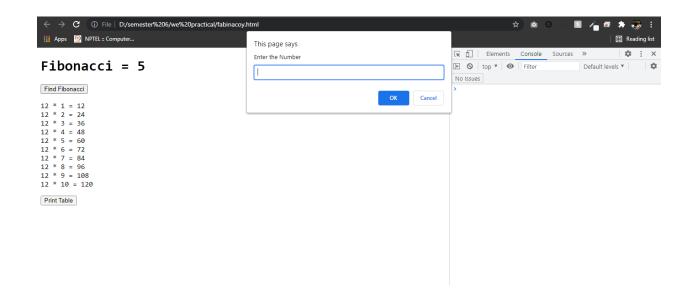
CODE:



Practical 5: Develop and demonstrate a XHTML file that includes JavaScript script for the following problems:

- a) Input: A number n obtained using prompt.
 - Output: The first n Fibonacci numbers.
- b) Input: A number n obtained using prompt.
 Output: A table of numbers from 1 to n and their squares using alert.

CODE:



Practical 6: Design a registration form and validate its field by using JavaScript **CODE:**



Practical 7: To design the scientific calculator and make event for each button using JavaScript.

```
cloctrys html
chand
chand
clock
chand
clock
```

```
| Script type="text/javascript" | function addition (input, character) { | function addition (input, character) | | input.value = harder | else | form.display.value | else | form.display.value | else | form.display.value | form.display.value | else | else | form.display.valu
```

```
| function square(form) {
| form.display.value = eval(form.display.value) * eval(form.display.value) |
| form.display.value = eval(form.display.va
```



SCIENTIFIC CALCULATOR



Practical 8: WAP to create popup boxes in JavaScript.



Practical 9: WAP to implement Java Servlet.

FILENAME: demoservlet.js

```
import javax.servlet.http.*;
import javax.servlet.*;
import java.io.*;

vpublic class DemoServlet extends HttpServlet {
    public void doGet(HttpServletRequest req, HttpServletResponse res)
    throws ServletException, IOException {
        res.setContentType("text/html"); //setting the content type
        PrintWriter pw = res.getWriter(); //get the stream to write the data

//writing html in the stream
    pw.println("<html><body>");
    pw.println("Welcome to servlet");
    pw.println("</body></html>");

pw.close(); //closing the stream
}
```

FILENAME: web.xml

TOMCAR SERVER LOG

NOTE: Picked up JDK_JAVA_OPTIONS: --add-opens=java.base/java.lang=ALL-UNNAMED --add-opens=java.base/java.io=ALL-UNNAMED --add-opens=java.base/java.util=ALL-UNN AMED --add-opens=java.base/java.util.concurrent=ALL-UNNAMED --add-opens=java.util=ALL-UNNAMED --add-opens=java.rmi
/sun.rmi.transport=ALL-UNNAMED
12-Jun-2021 01:08:04.668 INFO [main] org.apache.catalina.startup.VersionLoggerLi
stener.log Server version name: Apache Tomcat/9.0.46
12-Jun-2021 01:08:04.689 INFO [main] org.apache.catalina.startup.VersionLoggerLi
stener.log Server built: May 8 2021 17:35:52 UTC stener.log Server built:
May 8 2021 17:35:52 UTC
12-Jun-2021 01:08:04.690 INFO [main] org.apache.catalina.startup.VersionLoggerLi
stener.log Server version number: 9.0.46.0
12-Jun-2021 01:08:04.694 INFO [main] org.apache.catalina.startup.VersionLoggerLi stener.log OS Name: Windows 8.1 12-Jun-2021 01:08:04.695 INFO [main] org.apache.catalina.startup.VersionLoggerLi stener.log OS Version: 6.3 12-Jun-2021 01:08:04.700 INFO [main] org.apache.catalina.startup.VersionLoggerLi stener.log Architecture: amd64 12-Jun-2021 01:08:04.702 INFO [main] org.apache.catalina.startup.VersionLoggerL stener.log Java Home:
12-Jun-2021 01:08:04.702 INFO [main] org.apache.catalina.startup.versionLoggerLi
12-Jun-2021 01:08:04.703 INFO [main] org.apache.catalina.startup.VersionLoggerLi
stener.log JVM Version:
12-Jun-2021 01:08:04.704 INFO [main] org.apache.catalina.startup.VersionLoggerLi
stener.log JVM Vendor:
12-Jun-2021 01:08:04.704 INFO [main] org.apache.catalina.startup.VersionLoggerLi
stener.log CATALINA_BASE:
C:\Program Files\Apache Software Foundation\To mcat 9.0 12-Jun-2021 01:08:04.706 INFO [main] org.apache.catalina.startup.VersionLoggerLi stener.log CATALINA_HOME: C:\Program Files\Apache Software Foundation\To mcat 9.0 C:\Program Files\Apache Software Foundation\To 12-Jun-2021 01:08:04.847 INFO [main] org.apache.catalina.startup.VersionLoggerL stener.log Command line argument: --add-opens=java.base/java.lang=ALL-UNNAMED 12-Jun-2021 01:08:04.849 INFO [main] org.apache.catalina.startup.VersionLoggerL stener.log Command line argument: --add-opens=java.base/java.io=ALL-UNNAMED 12-Jun-2021 01:08:04.850 INFO [main] org.apache.catalina.startup.VersionLoggerLi stener.log Command line argument: --add-opens=java.base/java.util=ALL-UNNAMED 12-Jun-2021 01:08:04.852 INFO [main] org.apache.catalina.startup.VersionLoggerLi stener.log Command line argument: --add-opens=java.base/java.util.concurrent=ALL -UNNAMED 12-Jun-2021 01:08:04.853 INFO [main] org.apache.catalina.startup.VersionLoggerLi stener.log Command line argument: --add-opens=java.rmi/sun.rmi.transport=ALL-UNN 12-Jun-2021 01:08:04.855 INFO [main] org.apache.catalina.startup.VersionLoggerLi stener.log Command line argument: -Djava.util.logging.config.file=C:\Program Files\Apache Software Foundation\Tomcat 9.0\conf\logging.properties
12-Jun-2021 01:08:04.862 INFO [main] org.apache.catalina.startup.VersionLoggerLi
stener.log Command line argument: -Djava.util.logging.manager=org.apache.juli.Cl assLoaderLogManager 12-Jun-2021 01:08:04.869 INFO [main] org.apache.catalina.startup.VersionLoggerLi stener.log Command line argument: -Djdk.tls.ephemeralDHKeySize=2048 12-Jun-2021 01:08:04.871 INFO [main] org.apache.catalina.startup.VersionLoggerLi stener.log Command line argument: -Djava.protocol.handler.pkgs=org.apache.catali

```
12-Jun-2021 01:08:04.874 INFO [main] org.apache.catalina.startup.VersionLoggerLi 
stener.log Command line argument: -Dcatalina.base=C:\Program Files\Apache Softwa
re Foundation\Tomcat 9.0

12-Jun-2021 01:08:04.875 INFO [main] org.apache.catalina.startup.VersionLoggerLi
stener.log Command line argument: -Dcatalina.home=C:\Program Files\Apache Softwa
re Foundation\Tomcat 9.0

12-Jun-2021 01:08:04.877 INFO [main] org.apache.catalina.startup.VersionLoggerLi
stener.log Command line argument: -Djava.io.tmpdir=C:\Program Files\Apache Softw
are Foundation\Tomcat 9.0\temp
12-Jun-2021 01:08:05.002 INFO [main] org.apache.catalina.core.AprLifecycleListen er.lifecycleEvent Loaded Apache Tomcat Native library [1.2.28] using APR version
[1.7.0].
12-Jun-2021 01:08:05.004 INFO [main] org.apache.catalina.core.AprLifecycleListen
er.lifecycleEvent APR capabilities: IPv6 [true], sendfile [true], accept filters
[false], random [true].
12-Jun-2021 01:08:05.006 INFO [main] org.apache.catalina.core.AprLifecycleListen
er.lifecycleEvent APR/OpenSSL configuration: useAprConnector [false], useOpenSSL
[true]
12-Jun-2021 01:08:05.019 INFO [main] org.apache.catalina.core.AprLifecycleListen
er.initializeSSL OpenSSL successfully initialized [OpenSSL 1.1.1k 25 Mar 2021]
12-Jun-2021 01:08:06.465 INFO [main] org.apache.coyote.AbstractProtocol.init Ini
tializing ProtocolHandler ["http-nio-8080"]
12-Jun-2021 01:08:06.781 SEVERE [main] org.apache.catalina.util.LifecycleBase.ha
ndleSubClassException Failed to initialize component [Connector[HTTP/1.1-8080]]
org.apache.catalina.LifecycleException: Protocol handler initialization
failed
                           at org.apache.catalina.connector.Connector.initInternal(Connecto
  .java:1049)
                           at org.apache.catalina.util.LifecycleBase.init(LifecycleBase.jav
a:136)
                           at org.apache.catalina.core.StandardService.initInternal(Standar
dService.java:556)
                           at org.apache.catalina.util.LifecycleBase.init(LifecycleBase.jav
a:136)
                           at org.apache.catalina.core.StandardServer.initInternal(Standard
Server.java:1045)
                           at org.apache.catalina.util.LifecycleBase.init(LifecycleBase.jav
a:136)
                           at org.apache.catalina.startup.Catalina.load(Catalina.java:724)
                          at org.apache.catalina.startup.Catalina.load(Catalina.java:746) at java.base/jdk.internal.reflect.NativeMethodAccessorImpl.invok
eO(Native Method)
                           at java.base/jdk.internal.reflect.NativeMethodAccessorImpl.invok
e(NativeMethodAccessorImpl.java:64)
at java.base/jdk.internal.reflect.DelegatingMethodAccessorImpl.i
nvoke(DelegatingMethodAccessorImpl.java:43)
                          at java.base/java.lang.reflect.Method.invoke(Method.java:564)
                           at org.apache.catalina.startup.Bootstrap.load(Bootstrap.java:302
                           at org.apache.catalina.startup.Bootstrap.main(Bootstrap.java:472 v
```

```
Caused by: java.net.BindException: Address already in use: bind
                                                                 java.base/sun.nio.ch.Net.bindO(Native Method)
                                                                 java.base/sun.nio.ch.Net.bind(Net.java:550)
                                                       at java.base/sun.nio.ch.ServerSocketChannelImpl.bind(ServerSocke
   tChannelImpl.java:249)
                                                        at org.apache.tomcat.util.net.NioEndpoint.initServerSocket(NioEn
   dpoint.java:300)
                                                        at org.apache.tomcat.util.net.NioEndpoint.bind(NioEndpoint.java:
   253)
  at org.apache.tomcat.util.net.AbstractEndpoint.bindWithCleanup(A
bstractEndpoint.java:1204)
                                                        at org.apache.tomcat.util.net.AbstractEndpoint.init(AbstractEndp
   oint.java:1217)
                                                       at org.apache.covote.AbstractProtocol.init(AbstractProtocol.java
    :603)
  at org.apache.coyote.http11.AbstractHttp11Protocol.init(Abstract
Http11Protocol.java:80)
at org.apache.catalina.connector.Connector.initInternal(Connecto r.java:1046)

1... 13 more

12-Jun-2021 01:08:06.790 INFO [main] org.apache.catalina.startup.Catalina.load S erver initialization in [3172] milliseconds

12-Jun-2021 01:08:06.941 INFO [main] org.apache.catalina.core.StandardService.st artInternal Starting service [Catalina]

12-Jun-2021 01:08:06.946 INFO [main] org.apache.catalina.core.StandardEngine.sta rtInternal Starting Servlet engine: [Apache Tomcat/9.0.46]

12-Jun-2021 01:08:06.988 INFO [main] org.apache.catalina.startup.HostConfig.depl oyDirectory Deploying web application directory [C:\Program Files\Apache Softwar e Foundation\Tomcat 9.0\webapps\docs]

12-Jun-2021 01:08:07.878 INFO [main] org.apache.catalina.startup.HostConfig.depl oyDirectory Deployment of web application directory [C:\Program Files\Apache Softwar e Foundation\Tomcat 9.0\webapps\docs] has finished in [890] ms

12-Jun-2021 01:08:07.882 INFO [main] org.apache.catalina.startup.HostConfig.depl oyDirectory Deploying web application directory [C:\Program Files\Apache Softwar e Foundation\Tomcat 9.0\webapps\examples]

12-Jun-2021 01:08:09.712 INFO [main] org.apache.catalina.startup.HostConfig.depl oyDirectory Deployment of web application directory [C:\Program Files\Apache Softwar e Foundation\Tomcat 9.0\webapps\examples] has finished in [1,830] ms

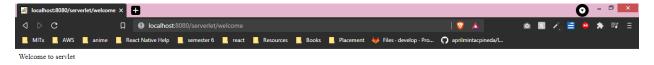
12-Jun-2021 01:08:09.75 INFO [main] org.apache.catalina.startup.HostConfig.depl oyDirectory Deploying web application directory [C:\Program Files\Apache Softwar e Foundation\Tomcat 9.0\webapps\host-manager]

12-Jun-2021 01:08:09.85 INFO [main] org.apache.catalina.startup.HostConfig.depl oyDirectory Deployment of web application directory [C:\Program Files\Apache Softwar e Foundation\Tomcat 9.0\webapps\host-manager]

12-Jun-2021 01:08:09.855 INFO [main] org.apache.catalina.startup.HostConfig.depl oyDirectory Deploying web application directory [C:\Program Files\Apache Softwar e Foundation\Tomcat 9.0\webapps\manager]

12-Jun-2021 01:08:09.855 INFO [main] org.apache.catalina.startup.Hos
                                                        at org.apache.catalina.connector.Connector.initInternal(Connecto
      .java:1046)
```

```
12-Jun-2021 01:08:09.949 INFO [main] org.apache.catalina.startup.HostConfig.depl oyDirectory Deploying web application directory [C:\Program Files\Apache Softwar e Foundation\Tomcat 9.0\webapps\rd]
12-Jun-2021 01:08:10.050 INFO [main] org.apache.catalina.startup.HostConfig.depl oyDirectory Deployment of web application directory [C:\Program Files\Apache Software Foundation\Tomcat 9.0\webapps\rd] has finished in [101] ms
12-Jun-2021 01:08:10.052 INFO [main] org.apache.catalina.startup.HostConfig.depl oyDirectory Deploying web application directory [C:\Program Files\Apache Software e Foundation\Tomcat 9.0\webapps\ROOT]
12-Jun-2021 01:08:10.112 INFO [main] org.apache.catalina.startup.HostConfig.depl oyDirectory Deployment of web application directory [C:\Program Files\Apache Software Foundation\Tomcat 9.0\webapps\ROOT] has finished in [59] ms
12-Jun-2021 01:08:10.113 INFO [main] org.apache.catalina.startup.HostConfig.depl oyDirectory Deploying web application directory [C:\Program Files\Apache Software Foundation\Tomcat 9.0\webapps\serverlet]
12-Jun-2021 01:08:10.183 INFO [main] org.apache.catalina.startup.HostConfig.depl oyDirectory Deployment of web application directory [C:\Program Files\Apache Software Foundation\Tomcat 9.0\webapps\serverlet] has finished in [65] ms
12-Jun-2021 01:08:10.186 INFO [main] org.apache.catalina.startup.HostConfig.depl oyDirectory Deploying web application directory [C:\Program Files\Apache Software Foundation\Tomcat 9.0\webapps\simpleValidation]
12-Jun-2021 01:08:10.297 INFO [main] org.apache.catalina.startup.HostConfig.depl oyDirectory Deploying web application directory [C:\Program Files\Apache Software Foundation\Tomcat 9.0\webapps\simpleValidation]
12-Jun-2021 01:08:10.306 INFO [main] org.apache.catalina.startup.HostConfig.depl oyDirectory Deploying web application directory [C:\Program Files\Apache Software Foundation\Tomcat 9.0\webapps\simpleValidation]
12-Jun-2021 01:08:10.306 INFO [main] org.apache.catalina.startup.HostConfig.depl oyDirectory Deployment of web application di
```



Practical 10: WAP to add image with height and width attributes in HTML page

CODE:

Output:

Image Size

Here we specify the width and height of an image with the width and height attributes:



Practical 11: WAP to add floating images in HTML Page.

```
<h2>Floating Images</h2>
            <strong>Float the image to the right:</strong>
              <img src="smiley.gif" alt="Smiley face" style="float:right;width:42px;height:42px;">
A paragraph with a floating image. A paragraph with a floating image. A paragraph with a floating
               image.
            <strong>Float the image to the left:</strong>
               <img src="smiley.gif" alt="Smiley face" style="float:left;width:42px;height:42px;">
               A paragraph with a floating image. A paragraph with a floating image. A paragraph with a floating
15 </body>
16 </html>
```

Floating Images

Float the image to the right:

A paragraph with a floating image. A paragraph with a floating image. A paragraph with a floating image.



A paragraph with a floating image. A paragraph with a floating image. A paragraph with a floating image.



Practical 12: WAP to get Geolocation and watch position.

```
colory | colory |
colory |
color |
color
```



Practical 13: WAP to implement a JSP to generate dynamic content.