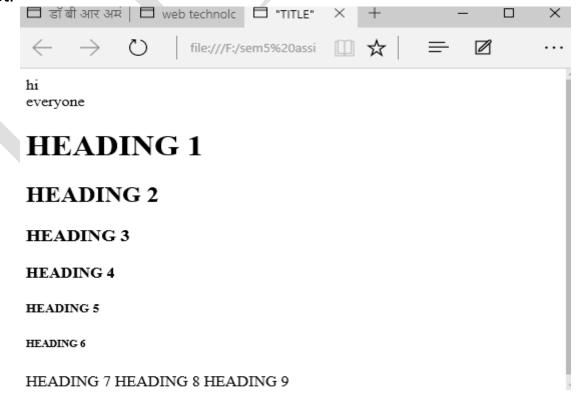
#### 1 HEADINGS IN HTML

<h1> till <h6> we have a hierarchy of headings with decreasing font size

#### Html code:

```
<!DOCTYPE html>
<html>
<head>hi <br/>
chead>hi <br/>
ctitle>"TITLE"</title>
<body>
<h1>HEADING 1</h1>
<h2>HEADING 2</h2>
<h3>HEADING 3</h3>
<h4>HEADING 4</h4>
<h5>HEADING 5</h5>
<h6>HEADING 6</h6>
<h7>HEADING 7</h7>
<h8>HEADING 8</h8>
<h9>HEADING 9</h9></body></html>
```



#### 2 BDO Tag:

Bidirectional tag aids writing orientation both sides left to right as well as right to left.

#### Html code:

```
<!DOCTYPE html>
<html>
<body><bdo DIR=RTL>"URDU"JT'</bdo></body>
</html>
```

#### Screenshot:

//the text within the bdo tag here will be printed in reverse since attribute defined is RTL.

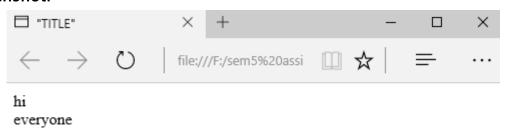


#### 3 br Tag:

Control to next line on the webpage

#### Html code:

```
<!DOCTYPE html>
<html>
<head>hi <br>everyone</head>
<title>"TITLE"</title>
</html>
```



#### 4) img Tag:

Inserting an image in an html page

#### Html code:





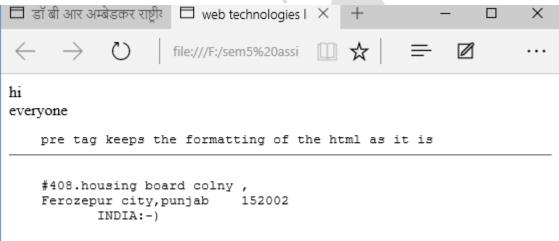
#### 5 <hr> and Tag:

<hr> provides a horizontal rule and mantains the formatted text

#### Html code:

```
<!DOCTYPE html>
<html>
<head>hi <bre>br>everyone</head><title>web technologies lab</title>
<body> 
pre tag keeps the formatting of the html as it is<hr>
#408.housing board colny ,
Ferozepur city,punjab 152002
INDIA:-)
</body>
</html>
```

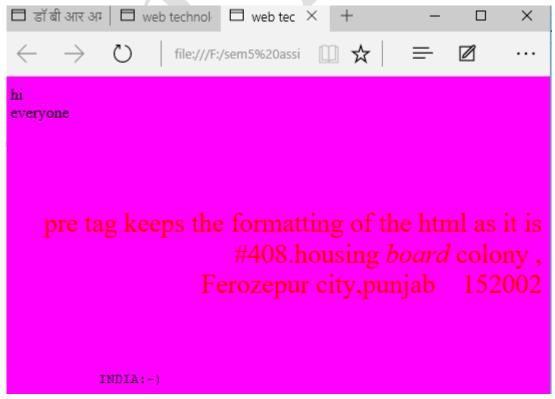
#### Screenshot(5<hr> and ):



#### 6) Set the colour and Font-style, font-size of the text :

Styling to html page is provided via CSS(Cascading style sheets) within <style> (internal CSS)

#### Html code:



#### 1 Formatting Elements in html:

There are various formatting elements in html which define the property of the text within that tag

#### Some of them are

```
<b> bold ,<i> italic,<em> emphasized text ,<sup> superscript,<sub> subscript ,<sins> inserted text,<mark> marked text,<strong>.
```

#### Html Code:

```
<!DOCTYPE html>
```

<html>

<head>hi <br/>br>everyone</head><title style="text-align:right;">web technologies lab</title>
<body>

<br/> <br/>this is bold <u>tag</u></b> 4<sub>th</sub> <strong><br> this is strong formatting</strong><em> <q>emphasis</em></q> </body> </html>

#### Screenshot



hi

everyone this is bold <u>tag</u> 4th this is strong formatting 'emphasis'

#### 2 Quotations and abbrevations in html:

<q> for quotation <abbr> tag for abbrevations. Title is added to display content on tooltip.

#### Html Code:

```
<!DOCTYPE html>
```

<html>

<head>

</head>

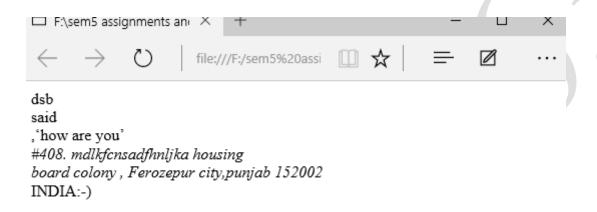
<body>

<abbr title="Daljit singh Bhalla">dsb</abbr><br>
said<br>,<q>how are you</q><br>

<address>#408.

```
mdlkfcnsadfhnljka
 housing <br > <i>board </i> colony ,
  Ferozepur city, punjab
                         152002
           </address>
      INDIA:-)
</body>
</html>
```

#### Screenshot:



### 3 Adding Links:

Links are added using  $\langle a \rangle$  tag and source specified in href attribute of  $\langle a \rangle$ .

```
Html Code:
  <!DOCTYPE html>
<html>
 <head></head>
 <body>
click on google and google search engine will be dispalyed in the same page(parent frame) < br>
 click on facebook and will open in a new page < br>
 click on codechef and will open in full frame <br/> <br/>br>
<a href="http://www.facebook.com" target="_blank"><img
src="C:\Users\Daljit\Pictures\fb.png" ></a>
 <a href="http://www.google.co.in" target="_parent"><img
src="C:\Users\Daljit\Pictures\google.jpg" style="width:300px;height:150px;"> </a> <bre>
<a href="http://www.codechef.com" target="_top"><img
src="C:\Users\Daljit\Pictures\codechef.png" style="width:300px;height:150px;"> </a>
</body>
            </html>
```

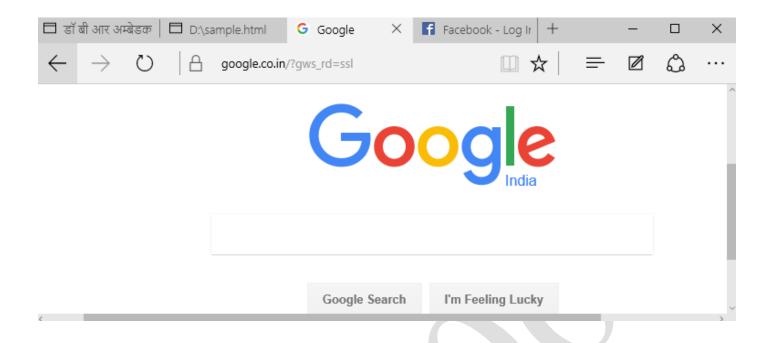
#### Screenshots:



After clicking on facebook icon:



After clicking on google: (opens in the same page)



#### After clicking on codechef icon (opens in the full frame)

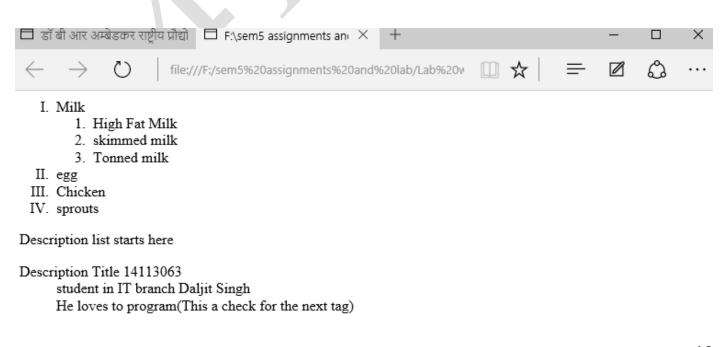


## 1 <u>List implementation with marker attribute(can als ouse unordered list) nested list...</u> Description list...

```
Html Code:
  <!DOC type>
<html>
 <head>
  </head>
<body>

    type="l">

MilkHigh Fat Milkskimmed milk
Tonned milk
egg
Chicken
sprouts
              </html>
 Description list starts here < br>
 < dl>
   <dt>
    Description Title 14113063</dt>
<dd> student in IT branch Daljit Singh </dd>
<dd> He loves to program(This a check for the next tag)</dd>
```



#### 2 Inline elements <div>,<span>

Containers div is used to style the blocks of content while span is a container for text. as in the webpage code where we have used via classes using id same way can be done with the span.

```
Html Code:
   <!DOC type>
   <html>
   <head> <style>div.cities{
  background-color:blue; padding:10 px;color:green;
     }</style></head>
 <div style="background-color:black; color:white; padding:20px">
<h2>Heading 2</h2>this block is in a div container</div>
</head><body> body part starts here
 This is cities div section < br>
      <div class="cities">
<h2>Delhi</h2>
<h3>amritsar</h3></div>
</body>
  <h1>My Name is <!--span begins--> <span style="Color:red;">Daljit Singh</span></h1>
</html>
```

#### Screenshot:



## My Name is Daljit Singh

#### 3 Iframes implementation and script:

```
Html code:
 <!DOC type>
<html><head>
<script>
  function myfunction(){
document.getElementById("Demo").innerHTML="HELLO js";
}</script>
</head><body>
<iframe name="i" src="http://www.google.co.in" style="Border:10px solid magenta; height:100;
width100; align:center;" > Iframe alt text</iframe>
<a href="F:\sem 5 assgnts and files\web designing\Div and inline.html"
target="iframe.i">click here</a>
 a paragraph
<button type="button" onclick="myfunction()">
clickme</button></body></html>
Screenshot:
🗖 ভ্ৰাঁ ৰী আर अम्बेडकर राष्ट्री । 🗖 F:\sem5 assignments ar 🗎 F:\sem5 assignments ar 🗎 F:\sem5 assignment
                     file:///F:/sem5%20assignments%20and%20lab/Lab%20work/web%20designing
            in a frame
            There is supposed to be
            some content here, but
            the publisher decen't
click here
a paragraph
clickme
2 after clicking the button click me javascript changes content of the webpage
🖂 डॉ बी आर अम्बेडकर राष्ट्री । 🗀 F:\sem5 assignments ar | 🗀 F:\sem5 assignments ar | 🗀 F:\sem5 assignment
                    file:///F:/sem5%20assignments%20and%20lab/Lab%20work/web%20designing
                                                                                           Ø
           in a frame
           There is supposed to be
           some content here, but
            tha nublichar daacn't
click here
HELLO is
 clickme
```

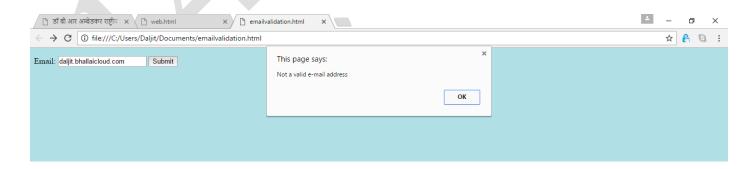
#### 4 Javascript Form Validations:

Javascript can be used in html pages to validate forms. Displays the message as in the script part of the html page.

```
Code:
  <!DOCTYPE html>
<html>
<head>
<script>
function validateForm() {
  var x = document.forms["myForm"]["fname"].value;
  if (x == null || x == "") {
     alert("Name must be filled out");
     return false; }}
</script>
</head>
<body>
<form name="myForm"
onsubmit="return validateForm()" method="post">
Name: <input type="text" name="fname">
<input type="submit" value="Submit">
</form>
</body>
</html>
 🕒 डॉ बी आर अम्बेडकर राष्ट्रीय 🗴 🕒 web.html
  → C i file:///C:/Users/Daljit/Documents/web.html
                                                                                              ☆ 🔓 🖫 :
                Submit
Name:
                                    This page says:
```

#### 5 Email Validation:

```
Code:
<!DOCTYPE html>
<html>
<head>
<script>
function validateForm() {
  var x = document.forms["myForm"]["email"].value;
  var atpos = x.indexOf("@");
  var dotpos = x.lastIndexOf(".");
  if (atpos<1 || dotpos<atpos+2 || dotpos+2>=x.length) {
    alert("Not a valid e-mail address");
    return false; }}
</script>
</head>
<body style="background-color:powderblue;">
<mark>
<form name="myForm" action="demo_form.asp" onsubmit="return validateForm();"
method="post">
Email: <input type="text" name="email">
<input type="submit" value="Submit">
</form>
</body>
</html>
```

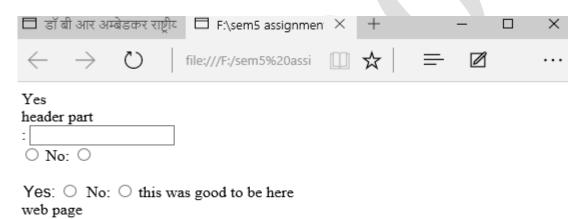


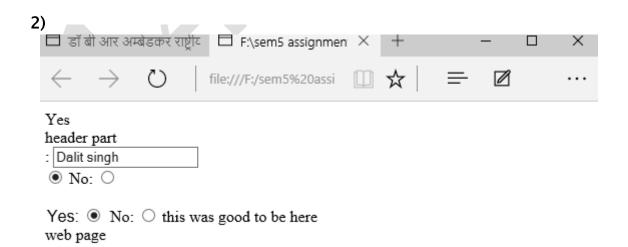
#### 4 A simple HTML FORM:

HTML forms are used to take input in a predefined format from user and are quiet popular. Html Code:

#### Screenshots:

1)





#### 1 Design CV in HTML.

```
Html code:
<!DOCTYPE html>
<html>
<head>
</head>
<title>Daljit's Resume</title>
<body color="blue">
<h2><center style="font-family:'times new roman';">RESUME</center></h2>
<a href="http:\\www.nitj.ac.in"><img height="120"src="F:\sem5 assignments and
lab\Lab work\web designing\images.jpg"></a></img>
<img height="120" width="150" src="D:\scholarships\Daljit.jpg"</pre>
align="right"</img><br><br>
<font size="3px">Undergraduate Student
IIIrd year
Contact No. 9463404575
Department of Information Technology
Email:daljitsb.ip.14@nitj.ac.in
Room No.134, Boys Hostel no.3, NIT Jalandhar </font><div></div><font
size='3px'>Workshops and Projects<font>Attended a workshop on
Internet of things and data security organized by TCS  Attented a workshop on
Android app developmentAn ongoing project on Graph tool in C++
<font size='3px'>
Accomplishments   4th topper of Industrial engineering and upgraded to
Information Technology Engineering Good Communication Skills 
Skills \langle u| \rangle \langle l| \rangle Data Structure and
algorithmsSQL and Databasesbr>
<font size="2px">
References
Prof Dr. Harsh k Verma
Assocaite professor
Department of C.S.E, NIT Jalandhar
Email:vermah@nitj.ac.in
Declaration I hereby declare that, all the above information I have furnished is genuine to
the best of my knowledge.
Daljit Singh</font>
```

```
Connect with Daljit on linkedin<a href="http://linkedin.com"><img height='20'</p>
width = '20' \ src = "F: \ assignments \ and \ lab \setminus Lab \ work \setminus web \ designing \setminus social-linked in-linked in-lin
 box-blue-icon.png"></img></a>
     </body>
         </html>
```

#### Screenshot:

#### RESUME





Email:daljitsb.ip.14@nitj.ac.in

Undergraduate Student IIIrd year Department of Information Technology Room No.134, Boys Hostel no.3, NIT Jalandhar

Workshops and Projects

- Attended a workshop on Internet of things and data security organized by TCS
   Attented a workshop on Android app development
   An ongoing project on Graph tool in C++

- · 4th topper of Industrial engineering and upgraded to Information Technology Engineering
- Good Communication Skills
  - **Skills** 

    - C C++ JAVA
    - Data Structure and algorithmsSQL and Databases

References Prof Dr. Harsh k Verma Assocaite professor Department of C.S.E,NIT Jalandhar Email:vermah@nitj.ac.in

Declaration I hereby declare that, all the above information I have furnished is genuine to the best of my knowledge.

Connect with Daljit on linkedin in





#### 1 Rowspan and colspan in a Table:

```
Rowspan & Colspan increase the span of rows and columns within a table.
Html Code:
   <html>
<head>
<style>
     table,th,td { border:2px solid black;}
     table {height:100;width:100;border-collapse:collapse;}
     th,td {padding:5px;}
     th{text-align:center;}</style></head>
<body style="background-color:lightblue">
<center><h1>Nit Jalandhar </h1></center><br>
<img src="F:\sem5 assignments and lab\Lab work\web designing\lab7\sun.gif"</pre>
width=130 height=90 align=right>
            <a href='http://www.nitj.ac.in' target=_blank><img src="F:\sem5 assignments"
and lab\Lab work\web designing\lab7\loggo.gif" height=90 width=90 ></a></center>
<br>
First Name Last Name Roll Number 
Deepanshu<img src="F:\sem5 assignments and lab\Lab work\web
designing\lab7\new_icon.gif">setia
<td>14124016</td></tr>Daljit</td>Bhalla</td>
14113063</body></html>
```



#### **Introduction to XML: (ALBUMS CATALOGUE)**

```
XML FILE:
  <?xml version="1.0" encoding="UTF-8"?>
<?xml-stylesheet type="text/css" href="cd_catalog.css"?>
<CATALOG>
 <CD>
    <TITLE>WAKAWAKA</TITLE>
    <ARTIST>SHAKIRA</ARTIST>
    <COUNTRY>South Africa</COUNTRY>
    <COMPANY>Columbia</COMPANY>
    <PRICE>10.90</PRICE>
    <YEAR>2010</YEAR> </CD>
 <CD>
    <TITLE>Sorry</TITLE>
    <ARTIST>Justin Bieber</ARTIST>
    <COUNTRY>UK</COUNTRY>
    <COMPANY>CBS Records</COMPANY>
    <PRICE>9.90</PRICE>
    <YEAR>2015</YEAR> </CD>
 <CD>
    <TITLE>I TOOK A PILL IN IBIZA</TITLE>
    <ARTIST>Mike Posner</ARTIST>
    <COUNTRY>USA</COUNTRY>
    <COMPANY>RCA</COMPANY>
    <PRICE>9.90</PRICE>
    <YEAR>2015</YEAR> </CD>
</CATALOG>
CSS FILE:
 CATALOG {
  background-color: #ffffff;
  width: 100%;
}
CD {
  display: block;
  margin-bottom: 30pt;
  margin-left: 0;
}
```

TITLE {

```
display: block;
  color: #ff0000;
  font-size: 20pt;
}
ARTIST {
    display: block;
    color: #0000ff;
    font-size: 20pt;
}
COUNTRY, PRICE, YEAR, COMPANY {
    display: block;
    color: #000000;
    margin-left: 20pt;
}
```

#### Screenshot:



## WAKAWAKA

## **SHAKIRA**

South Africa Columbia 10.90 2010

## Sorry

## Justin Bieber

UK CBS Records 9.90 2015

## I TOOK A PILL IN IBIZA

## Mike Posner

USA RCA 9.90

#### Lab-7

#### **Develop web application for Login Form**

```
HTML Code
<!Doctype html>
<html>
<body>
<center>
<form action="LoginServlet">
<h1>username:</h1><input type="text" name="name"><br/>
<h1>password:</h1><input type="password" name="password"><br/><br/>
<input type="submit" value="Login">
</form>
</center>
</body>
</html>
                                  XML Code
<?xml version="1.0"?>
<web-app>
<servlet>
<servlet-name>LoginServlet/servlet-name>
<servlet-class>LoginServlet/servlet-class>
</servlet>
<servlet-mapping>
<servlet-name>LoginServlet</servlet-name>
<url-pattern>/LoginServlet</url-pattern>
</servlet-mapping>
</web-app>
                                  Servlet Code
//loginservelet.java
import javax.servlet.*;
import java.io.*;
import java.sql.*;
import javax.servlet.http.*;
```

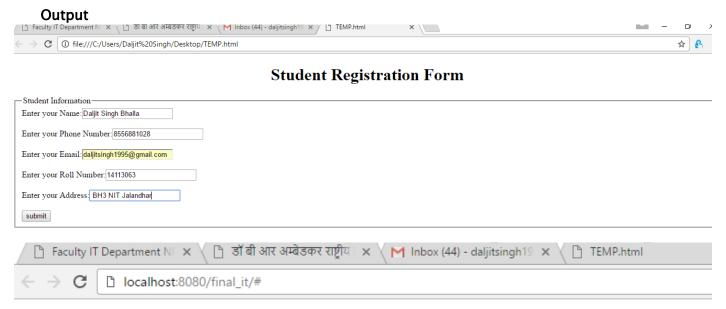
```
public class LoginServlet extends GenericServlet
{
public void service(ServletRequest req,ServletResponse res)throws ServletException,IOException
{
try
{
String s1=req.getParameter("name");
String s2=req.getParameter("password");
      res.setContentType("text/html");
      PrintWriter out=res.getWriter();
      if(s1.equals("ravi12348") && s2.equals("warrior"))
      out.println("<h1>" +"Login Successful"+"</h1>");
else
out.println("<h1>" +"Login Failed"+"</h1>");
out.close();
}
catch(Exception e)
e.printStackTrace();
}
}
}
                                                                                                                                      Output
 🕒 डॉ बी आर अम्बेडकर 🗴 👍 Facebook - Log In - 🗴 🕌 Facebook - Log In - 🗴 🕌 Facebook - Log In - 🗴 🔀 localhost8081/log 🗴 📞 servlet program fo - 🗴 🕆 👚 Login for
 ← → C i localhost:8081/log/login.html
                                                                                                                                                                                     username:
                                                                                                                                                                                     password:
                                                                                                                                                                                                    Login
   🕒 ব্ৰা বী আং ঝাৰ্মাৰকল 🗴 🕌 Facebook - Log In 🔞 🛣 Facebook - Log In 🗴 📳 Facebook - Log In 🗴 📳 Facebook - Log In 🗴 💮 Servlet program fo 🗴 📳 Communication of the service of th
    ← → C ① localhost:8081/log/LoginServlet?name=ravi12348&password=warrior
   Login Successful
```

### **Develop web application for Student Registration**

```
HTML Code
<!Doctype html>
<html>
<body>
<script>
function validate()
var name=document.forms["form1"]["name"].value;
var i,len=name.length;
for(i=0;i<len;i++)
if(!(name[i] > = 'a' \&\& name[i] < = 'z')||(name[i] > = 'A' \&\& name[i] < = 'Z')||name[i] = = ""))
window.alert("Invalid Name");
return false;
}
}
var num=document.forms["form1"]["number"].value;
if(isNaN(num))
window.alert("Invalid Mobile Number");
return false;
}
else if(num.length!=10)
window.alert("Invalid Mobile Number");
return false;
}
var address=document.forms["form1"]["email"].value; if(address.indexOf(".com")==-1||
address.indexOf("@"))
```

```
{
window.alert("Invalid Email Address");
return false;
var num=document.forms["form1"]["roll_number"].value;
if(isNan(num))
window.alert("Invalid Roll Number");
return false;
}
return true;
}
</script>
<h1 style="text-align:center">Student Registration Form</h1>
<form onSubmit="return validate()" action="LoginServlet" name="form1">
<fieldset>
<legend>Student Information</legend>
Enter your Name:<input type="text" name="name" required></br>
Enter your Phone Number: <input type="text" name="number" required></br>
Enter your Email:<input type="text" name="email" required></br>
Enter your Roll Number: <input type="text" name="roll_number" required></br>
Enter your Address: <input type="text" name="address" ></br>
<input type="submit" value="submit">
</fieldset>
</form>
</body>
</html>
                               XML Code
<web-app>
<servlet>
<servlet-name>LoginServlet</servlet-name>
<servlet-class>LoginServlet</servlet-class>
</servlet>
<servlet-mapping>
<servlet-name>LoginServlet</servlet-name>
<url-pattern>/LoginServlet</url-pattern>
</servlet-mapping>
```

```
</web-app>
                                     Servlet Code
//loginservelet.java
import javax.servlet.*;
import java.io.*;
import java.sql.*;
import javax.servlet.http.*;
public class LoginServlet extends GenericServlet
public void service(ServletRequest req,ServletResponse res)throws ServletException,IOException
{
try
String s1=req.getParameter("name");
String s2=req.getParameter("number");
String s3=req.getParameter("email");
String s4=req.getParameter("roll_number");
String s5=req.getParameter("address");
PrintWriter pw=res.getWriter();
pw.println("Name- "+s1);
pw.println("Mobile Number- "+s2);
pw.println("Email-"+s3);
pw.println("Roll Number-"+s4);
pw.println("Address-"+s5);
}
catch(Exception e)
e.printStackTrace();}}
}
```



Name- Daljit Singh Bhalla Mobile-8556881028 Email-daljitsingh1995@gmail.com RollNo- 14113063 Address- BH3 NITJalandhar



#### Lab-9

# Develop web application for taking price and quantity of products from user and displaying bill of user in another page

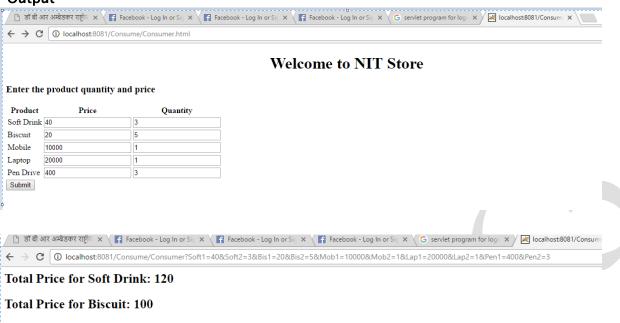
#### **HTML Code**

```
<!Doctype html>
<html>
<body>
<h1 style="text-align:center">Welcome to NIT Store</h1>
<h3>Enter the product quantity and price</h3>
<form name="form1" action="Consumer">
Product
Price
Quantity
Soft Drink
<input type="text" name="Soft1" >
<input type="text" name="Soft2" >
Biscuit
<input type="text" name="Bis1" >
<input type="text" name="Bis2" >
Mobile
<input type="text" name="Mob1" >
<input type="text" name="Mob2" >
```

```
Laptop
<input type="text" name="Lap1" >
<input type="text" name="Lap2" >
Pen Drive
<input type="text" name="Pen1" >
<input type="text" name="Pen2" >
<input type="submit" value="Submit">
</form>
</body>
</html>
                               XML Program
<?xml version="1.0"?>
<web-app>
<servlet>
<servlet-name>Consumer</servlet-name>
<servlet-class>Consumer</servlet-class>
</servlet>
<servlet-mapping>
<servlet-name>Consumer</servlet-name>
<url-pattern>/Consumer</url-pattern>
</servlet-mapping>
</web-app>
                         Servlet Program
import javax.servlet.*;
import java.io.*;
import java.sql.*;
import javax.servlet.http.*;
public class Consumer extends GenericServlet
public void service(ServletRequest req,ServletResponse res)throws ServletException,IOException
{
try
{
```

```
String Soft_Drink1 = req.getParameter("Soft1");
String Soft_Drink2=req.getParameter("Soft2");
String Biscuit1=req.getParameter("Bis1");
String Biscuit2=req.getParameter("Bis2");
String Mobile1 = req.getParameter("Mob1");
String Mobile2=req.getParameter("Mob2");
String Laptop1 = req.getParameter("Lap1");
String Laptop2=req.getParameter("Lap2");
String Pen_Drive1 = req.getParameter("Pen1");
String Pen_Drive2=req.getParameter("Pen2");
int a1=Integer.parseInt(Soft_Drink1)*Integer.parseInt(Soft_Drink2);
int a2=Integer.parseInt(Biscuit1)*Integer.parseInt(Biscuit2);
int a3=Integer.parseInt(Mobile1)*Integer.parseInt(Mobile2);
int a4=Integer.parseInt(Laptop1)*Integer.parseInt(Laptop2);
int a5=Integer.parseInt(Pen_Drive1)*Integer.parseInt(Pen_Drive2);
int total=a1+a2+a3+a4+a5;
PrintWriter out=res.getWriter();
  res.setContentType("text/html");
out.println("<h2>"+"Total Price for Soft Drink: "+ a1+"</h2>");
out.println("<h2>"+"Total Price for Biscuit: "+ a2+"</h2>");
out.println("<h2>"+"Total Price for Mobile: "+ a3+"</h2>");
out.println("<h2>"+"Total Price for Laptop: "+ a4+"</h2>");
out.println("<h2>"+"Total Price for Pen Drive: "+ a5+"</h2>");
out.print( "<h1>"+"Total Price : "+total+"</h1>");
out.close();
}
catch(Exception e)
{
e.printStackTrace();
}
}
}
```

#### Output



**Total Price for Mobile: 10000** 

Total Price for Laptop: 20000

**Total Price for Pen Drive: 1200** 

Total Price: 31420