

## Practical No. 5(a)

**Q. Develop a simple JSP application to display values obtained from the use of intrinsic objects of various types.**

**index.jsp**

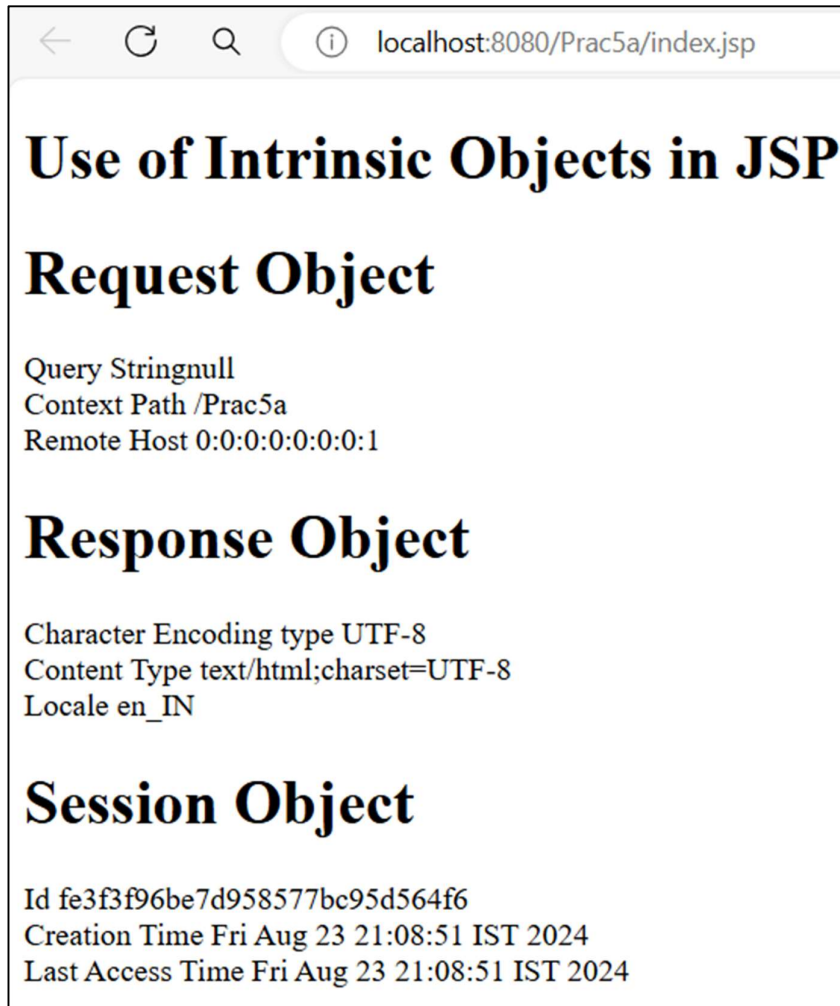
---

```
<%@page contentType="text/html" pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
  <head>
    <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
    <title>JSP Page</title>
  </head>

  <body>
    <h1>Use of Intrinsic Objects in JSP</h1>
    <h1>Request Object</h1>
    Query String<%= request.getQueryString() %></br>
    Context Path <%= request.getContextPath() %></br>
    Remote Host <%= request.getRemoteHost() %>
    <h1>Response Object</h1>
    Character Encoding type <%= response.getCharacterEncoding() %></br>
    Content Type <%= response.getContentType() %></br>
    Locale <%= response.getLocale() %></br>
    <h1>Session Object</h1>
    Id <%= session.getId() %></br>
    Creation Time <%= new java.util.Date(session.getCreationTime()) %></br>
    Last Access Time <%= new java.util.Date(session.getLastAccessedTime()) %></br>
  </body>
</html>
```

**Output:**

---



## Practical No. 5(b)

**Q. Develop a simple JSP application to pass values from one page to another with validations. (Name-txt, age-txt, hobbies-checkbox, email-txt, gender-radio button).**

### index.jsp

---

```
<%@page contentType="text/html" pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
  <head>
    <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
    <title>JSP Page-User Interface</title>
  </head>
  <body>
    <form action="Validate.jsp">
      Enter your name: <input type="text" name="name"><br>
      Enter your age: <input type="text" name="age"><br>
      Enter your hobbies <br> <input type="checkbox" name="hob"
      value="Singing">Singing<br>
      <input type="checkbox" name="hob" value="Reading">Reading<br>
      <input type="checkbox" name="hob" value="Reading">Playing Football<br>
      Enter E-mail ID: <input type="text" name="email"><br>
      Select Gender <br><input type="radio" name="gender" value="female">Female<br>
      <input type="radio" name="gender" value="male">Male<br>
      <input type="radio" name="gender" value="other">Other<br>
      <input type="hidden" name="error" value="">
      <input type="submit" value="Submit Form">
    </form>
  </body>
</html>
```

### Validate.jsp

---

```
<%@page contentType="text/html" pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
  <head>
    <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
    <title>JSP Page</title>
  </head>
  <body>
    <h1>Validation Page</h1>
    <jsp:useBean id="obj" scope="request" class="MyPackage.CheckerBeans">
      <jsp:setProperty name="obj" property="*" />
    </jsp:useBean>
```

```

        <%if(obj.validate())
        {%>
        <jsp:forward page="Successful.jsp"/>
        <%}
        else{%>
        <jsp:include page="index.jsp"/>
        <%}%>
        <%=obj.getError()%>
    </body>
</html>

```

## CheckerBeans.java

---

```

package MyPackage;

public class CheckerBeans
{
    String name, hob, email, gender, error;
    int age;
    public CheckerBeans()
    {
        name="";
        hob="";
        email="";
        gender="";
        error="";
        age=0;
    }
    public void setName(String n) {name=n;}
    public String getName() {return name;}
    public void setAge(int a) {age=a;}
    public int getAge() {return age;}
    public void setHob(String h) {hob=h;}
    public String getHob() {return hob;}
    public void setEmail(String e) {email=e;}
    public String getEmail(){return email;}
    public void setGender(String g) {gender=g;}
    public String getGender() {return gender;}
    public String getError() {return error;}
    public boolean validate()
    {
        boolean res = true;
        if(name.trim().equals(""))
        {
            error+="<br>Enter your name";
            res =false;
        }
        if(age<0||age>99)
        {

```

```

        error+="<br>Age is Invalid";
        res=false;
    }
    String emailregex="^[_A-Za-z0-9-]+(\\.[_A-Za-z0-9-]+)*@[_A-Za-z0-9-]+(\\.[_A-Za-z0-9-]+)*((\\.[A-Za-z]{2,})$)";
    Boolean b=email.matches(emailregex);
    if(!b)
    {
        error+="<br>Email is Invalid";
        res=false;
    }
    return res;
}
}

```

## Successful.jsp

---

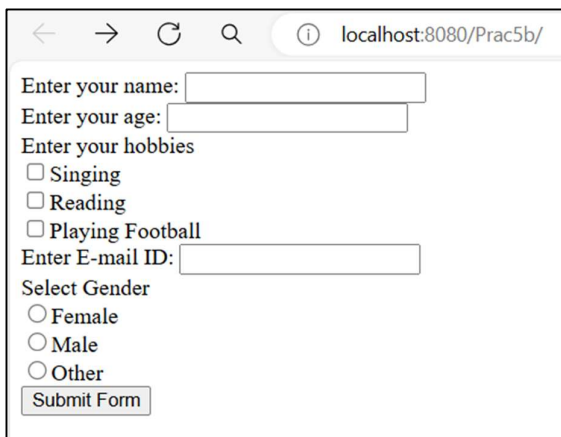
```

<%@page contentType="text/html" pageEncoding="UTF-8"%>
<!DOCTYPE html>
<html>
    <head>
        <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
        <title>Forward Page</title>
    </head>
    <body>
        <h1>Data Validated Successfully!</h1>
    </body>
</html>

```

## Output:

---



localhost:8080/Prac5b/

Enter your name:

Enter your age:

Enter your hobbies

☐ Singing

☐ Reading

☐ Playing Football

Enter E-mail ID:

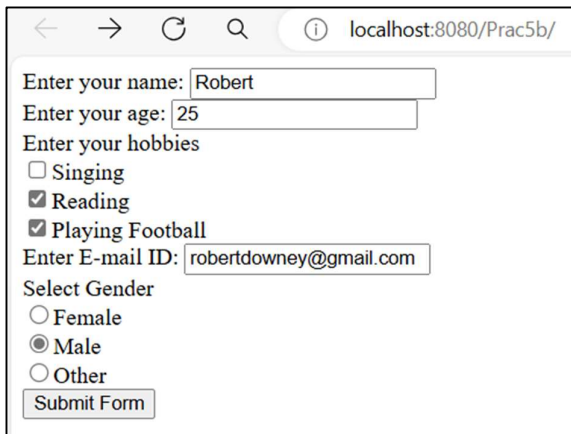
Select Gender

☐ Female

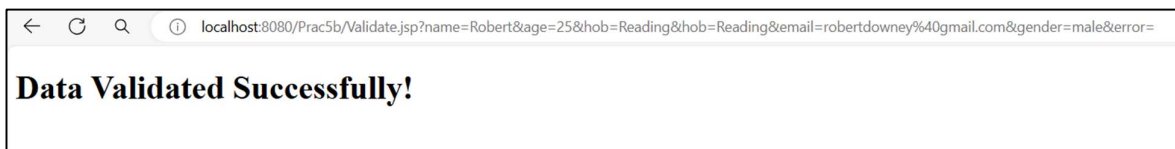
☐ Male

☐ Other

Output after giving right data:

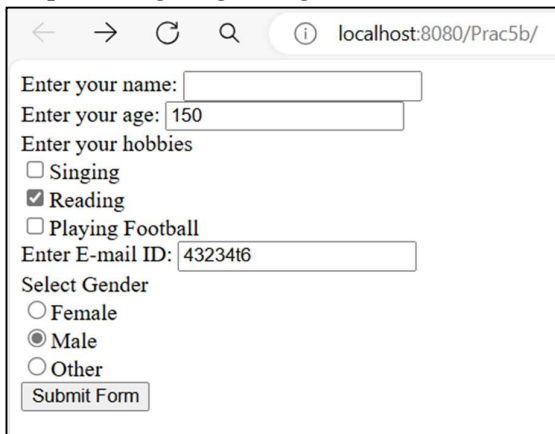


A screenshot of a web browser window at localhost:8080/Prac5b/. The browser's address bar shows the URL. The page contains a registration form with the following fields and values: "Enter your name:" with "Robert", "Enter your age:" with "25", "Enter your hobbies" with "Reading" and "Playing Football" selected, "Enter E-mail ID:" with "robertdowney@gmail.com", and "Select Gender" with "Male" selected. A "Submit Form" button is at the bottom.



A screenshot of a web browser window at localhost:8080/Prac5b/Validate.jsp?name=Robert&age=25&hob=Reading&hob=Reading&email=robertdowney%40gmail.com&gender=male&error=. The page displays the message "Data Validated Successfully!" in a large, bold font.

Output after giving wrong data:



A screenshot of a web browser window at localhost:8080/Prac5b/. The browser's address bar shows the URL. The page contains a registration form with the following fields and values: "Enter your name:" (empty), "Enter your age:" with "150", "Enter your hobbies" with "Reading" selected, "Enter E-mail ID:" with "43234t6", and "Select Gender" with "Male" selected. A "Submit Form" button is at the bottom.



A screenshot of a web browser window at localhost:8080/Prac5b/Validate.jsp?name=&age=150&hob=Reading&email=43234t6&gender=male&error=. The page displays the message "Validation Page" in a large, bold font. Below the message, the registration form is shown with the same fields and values as in the previous screenshot. At the bottom, there are three lines of error messages: "Enter your name", "Age is Invalid", and "Email is Invalid".