

**Q1. Take input from the user i.e., your name and print welcome on the next servlet(use of servlet).**

⇒ Index.html

```
<!DOCTYPE html>
<html>
<body>
  <form action="NewServlet" method="GET">
    <label> Enter your name :</label>
    <input type="text" name="uname"><br>
    <input type="submit">
  </form>
</body>
</html>
```

⇒ NewServlet.java

```
import java.io.IOException;
import java.io.PrintWriter;
import javax.servlet.ServletException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
public class NewServlet extends HttpServlet {
  protected void processRequest(HttpServletRequest request, HttpServletResponse response)
    throws ServletException, IOException {
    response.setContentType("text/html;charset=UTF-8");
    char a;
    try ( PrintWriter out = response.getWriter()) {
      out.println("<!DOCTYPE html>");
      out.println("<html>");
      out.println("<head>");
      out.println("<title>Servlet NewServlet</title>");
      out.println("</head>");
      out.println("<body>");
      out.println("<h1> Welcome " + request.getParameter("uname") + "</h1>");
      out.println("</body>");
      out.println("</html>");
    } } }
```



**Welcome Jinal Soni**

**Q2. Take input from the user i.e., your name and print welcome on the next servlet(use of JSP).**

⇒ Index.Html

```
<!DOCTYPE html>
<html>
  <head>
    <title>Start Page</title>
    <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
  </head>
  <body>
    <form action="newjsp1.jsp" method="GET">
      <label> Enter your name :</label>
      <input type="text" name="uname"><br>
      <input type="submit">
    </form>
  </body>
</html>
```

⇒ newjsp1.jsp

```
<!DOCTYPE html>
<html>
  <head>
    <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
    <title>JSP Page</title>
  </head>
  <body>
    <% String n = request.getParameter("uname");
       out.println("Welcome " + n); %>
  </body>
</html>
```



**Welcome Jinal Soni**

**Q3. Choose color from the list box in HTML, and the chosen color should be the background of the servlet(use of sevlet)**

⇒ Index.html

```
<!DOCTYPE html>
<html>
  <head>
    <title>Start Page</title>
    <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
  </head>
  <body>
    <form action="NewServlet" method="GET">
      <label>Choose color: </label>
      <input type="color" name="colors" value="#e27979">
      <input type="submit">
    </form>
  </body>
</html>
```

⇒ NewServlet.java

```
import java.io.IOException;
import java.io.PrintWriter;
import javax.servlet.ServletException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
public class NewServlet extends HttpServlet {
  protected void processRequest(HttpServletRequest request, HttpServletResponse response)
    throws ServletException, IOException {
    response.setContentType("text/html;charset=UTF-8");
    try (PrintWriter out = response.getWriter()) {
      /* TODO output your page here. You may use following sample code. */
      out.println("<!DOCTYPE html>");
      out.println("<html>");
      out.println("<head>");
      out.println("<title>Servlet NewServlet</title>");
      out.println("</head>");
      String n = request.getParameter("colors");
      out.println("<body style='background-color:"+n+"'> Color changed");
      out.println("</body>");
      out.println("</html>");
    }
  }
}
```

#### Q4. Choose color from the list box in HTML, and the chosen color should be the background of the servlet(use of jsp)

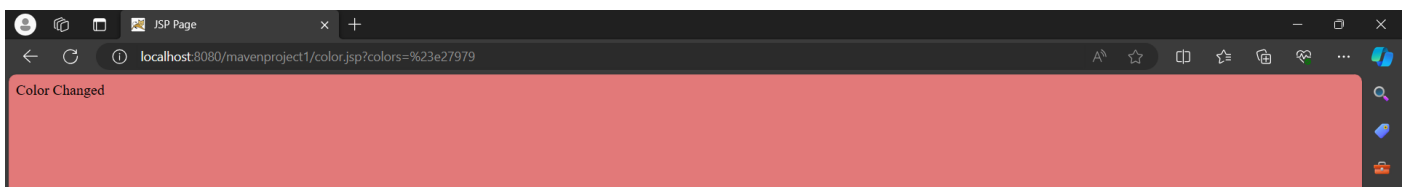
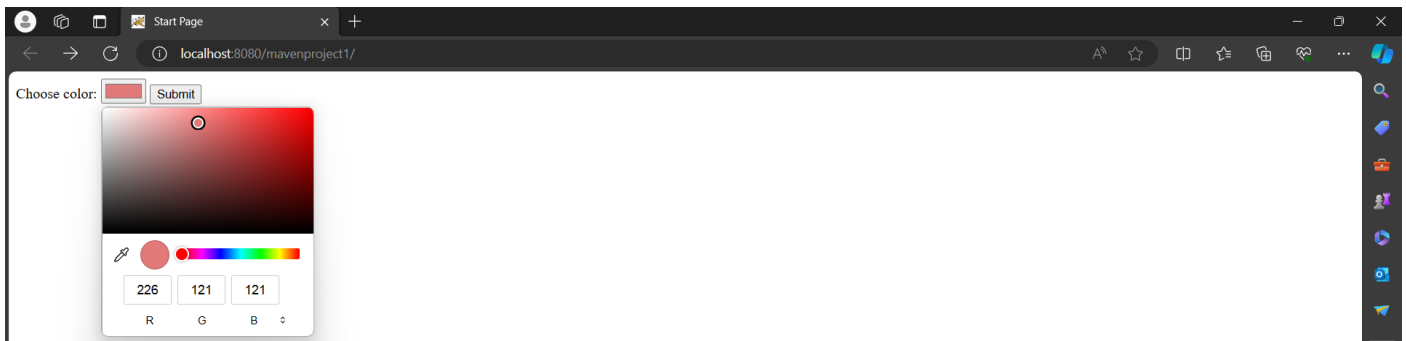
⇒ Index.html

```
<!DOCTYPE html>
<html>
<head>
<title>Start Page</title>
<meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
</head>
<body>
<form action="color.jsp" method="GET">
<label>Choose color: </label>
<input type="color" name="colors" value="#e27979">
<input type="submit">
</form>
</body>
</html>
```

⇒ Color.jsp

```
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
<title>JSP Page</title>

<%
String color = request.getParameter("colors");
out.println("<style> body{background-color : " +color+ "};</style>");
%>
</head>
<body>
<% out.println("Color Changed"); %>
</body>
</html>
```



**Q5. Input from user that is run of friend in HTML, first servlet ask the name of friend and print the name of friend using second servlet. (Use of servlet)**

⇒ Index.html

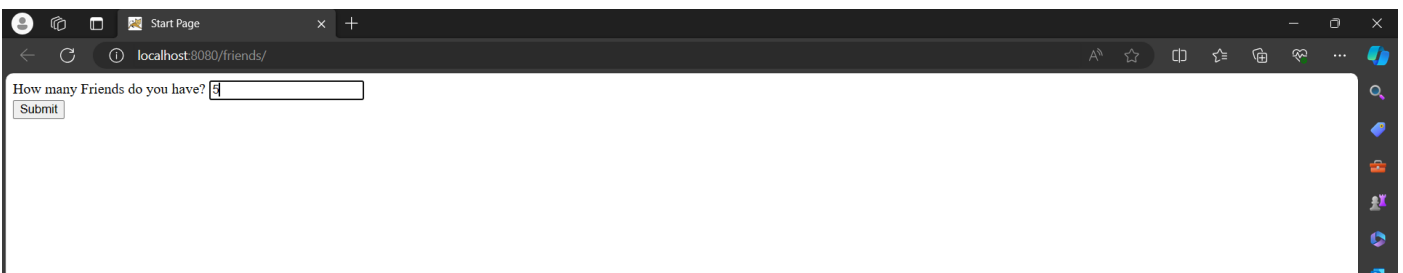
```
<!DOCTYPE html>
<html>
  <head>
    <title>Start Page</title>
    <meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
  </head>
  <body>
    <form action="NewServlet" method="GET">
      <label>How many Friends do you have?</label>
      <input type="text" name="uname"><br>
      <input type="submit">
    </form>
  </body>
</html>
```

⇒ NewServlet.java

```
import java.io.IOException;
import java.io.PrintWriter;
import javax.servlet.ServletException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
public class NewServlet extends HttpServlet {
    protected void processRequest(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException {
        response.setContentType("text/html;charset=UTF-8");
        try (PrintWriter out = response.getWriter()) {
            /* TODO output your page here. You may use following sample code. */
            out.println("<!DOCTYPE html>");
            out.println("<html>");
            out.println("<head>");
            out.println("<title>Servlet NewServlet</title>");
            out.println("</head>");
            out.println("<body>");
            String data = request.getParameter("uname");
            int n = Integer.parseInt(data);
            out.println("glad to know that you have " + n + " friends");
            out.println("<form action='NewServlet1' method='GET'>");
            out.println("<input type = 'hidden' name='uname' value =\"" + n + "\">");
            for(int i=1; i<=n; i++)
                out.println("Enter " + i + " friend name : <input type='text' name='uuname"+i+"'"><br>");
            out.println("<input type = 'submit'>");
            out.println("</body>");
            out.println("</html>");
        }
    }
}
```

⇒ NewServlet1.java

```
import java.io.IOException;
import java.io.PrintWriter;
import javax.servlet.ServletException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
public class NewServlet1 extends HttpServlet {
    protected void processRequest(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException {
        response.setContentType("text/html;charset=UTF-8");
        try (PrintWriter out = response.getWriter()) {
            /* TODO output your page here. You may use following sample code. */
            out.println("<!DOCTYPE html>");
            out.println("<html>");
            out.println("<head>");
            out.println("<title>Servlet NewServlet1</title>");
            out.println("</head>");
            out.println("<body>");
            String data = request.getParameter("uname");
            int n = Integer.parseInt(data);
            for(int i=1; i<=n; i++)
                out.println("your " + i + " friend name is " + request.getParameter("uname"+i) + "<br>");
            out.println("</body>");
            out.println("</html>");
        }
    }
}
```



Start Page

localhost:8080/friends/

How many Friends do you have?



JSP Page

localhost:8080/friends/newjsp.jsp?uname=5

Glad to know that you have 5 Friends

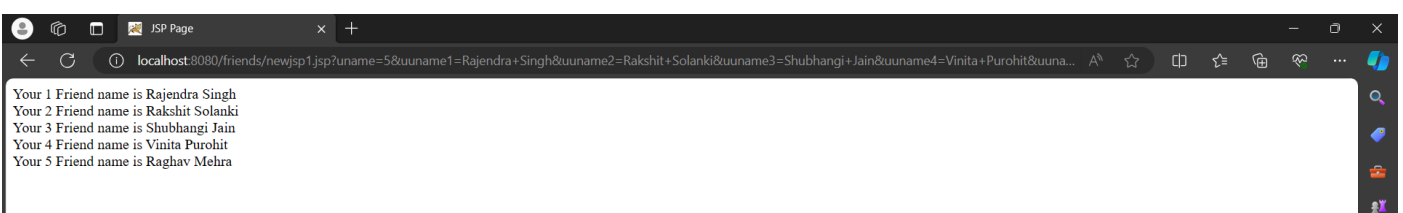
Enter 1 Friend name :

Enter 2 Friend name :

Enter 3 Friend name :

Enter 4 Friend name :

Enter 5 Friend name :



JSP Page

localhost:8080/friends/newjsp1.jsp?uname=5&uname1=Rajendra+Singh&uname2=Rakshit+Solanki&uname3=Shubhangi+Jain&uname4=Vinita+Purohit&uuna...

Your 1 Friend name is Rajendra Singh

Your 2 Friend name is Rakshit Solanki

Your 3 Friend name is Shubhangi Jain

Your 4 Friend name is Vinita Purohit

Your 5 Friend name is Raghav Mehra

**Q6. Input from user that is run of friend in HTML, first servlet ask the name of friend and print the name of friend using second servlet. (Use of JSP)**

⇒ Index.html

```
<!DOCTYPE html>
<html>
<head>
<title>Start Page</title>
<meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
</head>
<body>
<form action="newjsp.jsp" method="GET">
<label>How many Friends do you have?</label>
<input type="text" name="uname"><br>
<input type="submit">
</form>
</body>
</html>
<%@page contentType="text/html" pageEncoding="UTF-8"%>
```

⇒ Newjsp.jsp

```
<!DOCTYPE html>
<html>
<body>
<%
String data = request.getParameter("uname");
int n = Integer.parseInt(data);
out.println("Glad to know that you have " + n + " Friends");
out.println("<form action='newjsp1.jsp' method='GET'>");
out.println("<input type = 'hidden' name='uname' value =\"" + n + "\">");
for(int i=1; i<=n; i++)
    out.println("Enter " + i + " Friend name : <input type='text' name='uuname'+i+\"><br>");
out.println("<input type = 'submit'>");
%>
</body>
</html>
```

⇒ Newjsp1.jsp

```
<!DOCTYPE html>
<html>
<body>
<%
String data = request.getParameter("uname");
int n = Integer.parseInt(data);
for(int i=1; i<=n; i++)
    out.println("Your " + i + " Friend name is " + request.getParameter("uuname"+i) + "<br>");
%>
</body>
</html>
```

