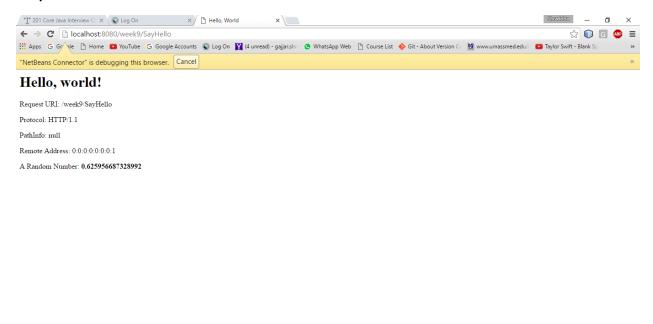
# First Demo of simple helloworld.java using servlet:

# Practical -1

```
* To change this license header, choose License Headers in Project Properties.
* To change this template file, choose Tools | Templates
* and open the template in the editor.
*/
import java.io.IOException;
import java.io.PrintWriter;
import javax.servlet.ServletException;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
/**
* @author manthan
*/
@WebServlet(urlPatterns = {"/SayHello"})
public class HelloWorldServIt extends HttpServIet {
 @Override
 public void doGet(HttpServletRequest request, HttpServletResponse response)
     throws IOException, ServletException {
   // Set the response MIME type of the response message
```

```
response.setContentType("text/html");
   // Allocate a output writer to write the response message into the network socket
   PrintWriter out = response.getWriter();
   // Write the response message, in an HTML page
   try {
    out.println("<html>");
    out.println("<head><title>Hello, World</title></head>");
    out.println("<body>");
    out.println("<h1>Hello, world!</h1>"); // says Hello
    // Echo client's request information
    out.println("Request URI: " + request.getRequestURI() + "");
    out.println("Protocol: " + request.getProtocol() + "");
    out.println("PathInfo: " + request.getPathInfo() + "");
    out.println("Remote Address: " + request.getRemoteAddr() + "");
    // Generate a random number upon each request
    out.println("A Random Number: <strong>" + Math.random() + "</strong>");
    out.println("</body></html>");
   } finally {
    out.close(); // Always close the output writer
   }
 }
}
```

### **Output:**



# Search the web and Windows 🗇 🤚 🔒 🧓 🚺 🧾

## **Practical -2**

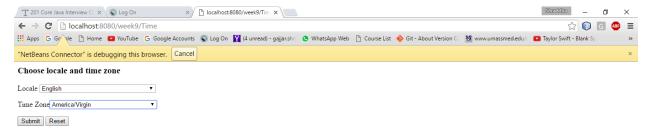
# That shows Date and Time of the selected country in selected language.

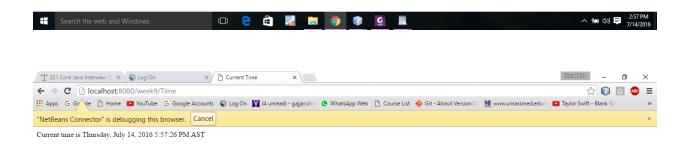
```
* To change this license header, choose License Headers in Project Properties.
* To change this template file, choose Tools | Templates
* and open the template in the editor.
*/
import javax.servlet.annotation.WebServlet;
import javax.servlet.*;
import javax.servlet.http.*;
import java.io.*;
import java.util.*;
import java.text.*;
* @author manthan
*/
@WebServlet(name = "Time", urlPatterns = {"/Time"})
public class TimeForm extends HttpServlet {
  private static final String CONTENT_TYPE = "text/html";
 private Locale[] allLocale = Locale.getAvailableLocales();
 private String[] allTimeZone = TimeZone.getAvailableIDs();
/** Process the HTTP Get request */
```

```
public void doGet(HttpServletRequest request, HttpServletResponse
  response) throws ServletException, IOException {
 response.setContentType(CONTENT_TYPE);
 PrintWriter out = response.getWriter();
 out.println("<h3>Choose locale and time zone</h3>");
 out.println("<form method=\"post\" action=" +
  "Time>");
 out.println("Locale <select size=\"1\" name=\"locale\">");
// Fill in all locales
 for (int i = 0; i < allLocale.length; i++) {
  out.println("<option value=\"" + i +"\">" +
   allLocale[i].getDisplayName() + "</option>");
 }
 out.println("</select>");
// Fill in all time zones
 out.println("Time Zone<select size=\"1\" name=\"timezone\">");
 for (int i = 0; i < allTimeZone.length; i++) {
  out.println("<option value=\"" + allTimeZone[i] +"\">" +
   allTimeZone[i] + "</option>");
 }
 out.println("</select>");
 out.println("<input type=\"submit\" value=\"Submit\" >");
 out.println("<input type=\"reset\" value=\"Reset\">");
 out.println("</form>");
 out.close(); // Close stream
```

```
/** Process the HTTP Post request */
 public void doPost(HttpServletRequest request, HttpServletResponse
   response) throws ServletException, IOException {
  response.setContentType(CONTENT_TYPE);
  PrintWriter out = response.getWriter();
  out.println("<html>");
  int localeIndex = Integer.parseInt(
   request.getParameter("locale"));
  String timeZoneID = request.getParameter("timezone");
  out.println("<head><title>Current Time</title></head>");
  out.println("<body>");
  Calendar calendar =
   new GregorianCalendar(allLocale[localeIndex]);
  TimeZone timeZone = TimeZone.getTimeZone(timeZoneID);
  DateFormat dateFormat = DateFormat.getDateTimeInstance(
   DateFormat.FULL, DateFormat.FULL, allLocale[localeIndex]);
  dateFormat.setTimeZone(timeZone);
  out.println("Current time is " +
   dateFormat.format(calendar.getTime()) + "");
  out.println("</body></html>");
  out.close(); // Close stream
}
}
```

### **Output:**







#### Practical -3

```
Registration class:
* To change this license header, choose License Headers in Project Properties.
* To change this template file, choose Tools | Templates
* and open the template in the editor.
*/
import java.io.IOException;
import java.io.PrintWriter;
import javax.servlet.ServletException;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
* @author manthan
*/
@WebServlet(urlPatterns = {"/Regiclass"})
public class Regiclass extends HttpServlet {
  private String lastname;
```

```
private String firstname;
private String gender;
private String telephone;
private String eamil;
public Regiclass(String lastname, String firstname, String gender, String telephone, String eamil) {
  this.lastname = lastname;
  this.firstname = firstname;
  this.gender = gender;
  this.telephone = telephone;
  this.eamil = eamil;
}
public String getFirstname() {
  return firstname;
}
public String getLastname() {
  return lastname;
}
public String getGender() {
  return gender;
}
public String getTelephone() {
  return telephone;
}
```

```
public String getEamil() {
    return eamil;
  }
  public void setLastname(String lastname) {
    this.lastname = lastname;
  }
  public void setFirstname(String firstname) {
    this.firstname = firstname;
  }
  public void setGender(String gender) {
    this.gender = gender;
  }
  public void setTelephone(String telephone) {
    this.telephone = telephone;
  }
  public void setEamil(String eamil) {
    this.eamil = eamil;
  }
}
```

Regiservelt java class that take value from user write in dat file then read from it and display what you entered:

```
/*
* To change this license header, choose License Headers in Project Properties.
* To change this template file, choose Tools | Templates
* and open the template in the editor.
*/
import java.io.IOException;
import java.io.PrintWriter;
import javax.servlet.ServletException;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import java.io.*;
import javax.servlet.*;
import javax.servlet.http.*;
* @author manthan
*/
@WebServlet(urlPatterns = {"/Regi"})
```

```
public class Regi extends HttpServlet {
private String message;
public void init() throws ServletException
{
   // Do required initialization
   message = "Shraddha Gajjar";
}
public void doGet(HttpServletRequest request,HttpServletResponse response)throws ServletException,
IOException
{
  response.setContentType("text/html");
  PrintWriter out = response.getWriter();
  out.println("<h3>Choose locale and time zone</h3>");
  out.println("<form method=\"post\" action=" +
   "Regi>");
  out.println("First Name : <input type=\"text\" name=\"FirstName\"> ");
  out.println("Last Name : <input type=\"text\" name=\"LastName\"> ");
  out.println(" Gender: <select size=\"1\" name=\"Gender\"> ");
  out.println("<option value=\"Female\">Female</option>");
  out.println("<option value=\"Male\">Male</option>");
```

```
out.println("</select>");
 out.println("Telephone : <input type=\"text\" name=\"Teleno\">");
 out.println("Email ID : <input type=\"text\" name=\"Email\">");
 out.println("<input type=\"submit\" value=\"Submit\" >");
 out.println("<input type=\"reset\" value=\"Reset\">");
 out.println("</form>");
 out.close(); // Close stream
}
public void doPost(HttpServletRequest request, HttpServletResponse
  response) throws ServletException, IOException {
 response.setContentType("text/html");
 PrintWriter out = response.getWriter();
 String lastName = request.getParameter("LastName");
 String firstName = request.getParameter("FirstName");
 String gender = request.getParameter("Gender");
 String telephone = request.getParameter("Teleno");
 String email = request.getParameter("Email");
 if (lastName.length() == 0 | | firstName.length() == 0) {
  out.println("Last Name and First Name are required");
  return; // End the method
 }
```

```
Regiclass r = new Regiclass(lastName, firstName, gender, telephone, email);
 try{
   ObjectOutputStream outFile = new ObjectOutputStream(new FileOutputStream("Regidata.dat"));
   outFile.writeObject(r);
   outFile.close();
 } catch(Exception e){
   System.out.println(e);
 }
 try{
   ObjectInputStream inFile = new ObjectInputStream(new FileInputStream("Regidata.dat"));
   Regiclass regiin = (Regiclass)inFile.readObject();
 out.println("You entered the following data");
 out.println("Last name: " + regiin.getLastname());
 out.println("<br>First name: " + regiin.getFirstname());
 out.println("<br>Gender: " + regiin.getGender());
 out.println("<br>Telephone: " + regiin.getTelephone());
 out.println("<br>Email: " + regiin.getEamil());
 } catch(Exception e){
   System.out.println(e);
 }
}
```

```
public void destroy()
{
    // do nothing.
}
```

### **Output:**

