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Assignment 5

Code

1. SOAP

```
package org.me.stringmanip;
import javax.jws.WebService;
import javax.jws.WebMethod;
import javax.jws.WebParam;
import javax.ejb.Stateless;
@WebService(serviceName = "Stringop")
@Stateless()
public class Stringop {
  /**
   * Web service operation
  @WebMethod(operationName = "concat")
  public String concat(@WebParam(name = "a") String a, @WebParam(name =
"b") String b) {
    //TODO write your implementation code here:
    String res = a.concat(b);
    return res;
  }
   * Web service operation
  @WebMethod(operationName = "length")
  public int length(@WebParam(name = "a") String a) {
    //TODO write your implementation code here:
    return a.length();
  }
```

```
* Web service operation
  @WebMethod(operationName = "upper")
  public String upper(@WebParam(name = "a") String a) {
    //TODO write your implementation code here:
    return a.toUpperCase();
  }
   * Web service operation
  @WebMethod(operationName = "lower")
  public String lower(@WebParam(name = "a") String a) {
    //TODO write your implementation code here:
    return a.toLowerCase();
  }
   * Web service operation
  @WebMethod(operationName = "compare")
  public String compare(@WebParam(name = "a") String a, @WebParam(name =
"b") String b) {
    //TODO write your implementation code here:
    int comp = a.compareTo(b);
    String msg = "";
    if(comp==0)
    {
       msg = "Both are equal";
    else if(comp<0)
       msg = "Second string is lexicographically greater";
    }
    else
       msg = "First string is lexicographically greater";
    return msg;
  }
}
            2.
                  REST
```

```
* Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to
change this license
* Click
nbfs://nbhost/SystemFileSystem/Templates/WebServices/GenericResource.java to
edit this template
*/
package org.me.stringopsrest;
import javax.ws.rs.core.Context;
import javax.ws.rs.core.UriInfo;
import javax.ws.rs.Produces;
import javax.ws.rs.Consumes;
import javax.ws.rs.GET;
import javax.ws.rs.Path;
import javax.ws.rs.PUT;
import javax.ws.rs.PathParam;
import javax.ws.rs.core.MediaType;
* REST Web Service
* @author tanay
@Path("generic")
public class GenericResource {
  @Context
  private UriInfo context;
   * Creates a new instance of GenericResource
  public GenericResource() {
   * Retrieves representation of an instance of
org.me.stringopsrest.GenericResource
   * @return an instance of java.lang.String
  @GET
  @Produces(MediaType.APPLICATION_XML)
  public String getXml() {
    //TODO return proper representation object
    return "<hi>Hello</hi>";
//new UnsupportedOperationException();
  }
```

```
/**
* PUT method for updating or creating an instance of GenericResource
* @param content representation for the resource
*/
@PUT
@Consumes(MediaType.APPLICATION_XML)
public void putXml(String content) {
}
@GET
@Path("/concat/{a},{b}")
public String concat(@PathParam("a") String a, @PathParam("b") String b)
  String res = a.concat(b);
  return res;
}
@GET
@Path("/compare/{a},{b}")
public String compare(@PathParam("a") String a,@PathParam("b") String b)
  int comp = a.compareTo(b);
  String msg = "";
  if(comp==0)
    msg = "Both are equal";
  else if(comp<0)
    msg = "Second string is lexicographically greater";
  }
  else
    msg = "First string is lexicographically greater";
  return msg;
}
@GET
@Path("/length/{a}")
public int length(@PathParam("a") String a)
  return a.length();
}
@GET
@Path("/upper/{a}")
public String upper(@PathParam("a") String a) {
```

```
//TODO write your implementation code here:
    return a.toUpperCase();
}

@GET
@Path("/lower/{a}")
public String lower(@PathParam("a") String a) {
    //TODO write your implementation code here:
    return a.toUpperCase();
}
```

Output

























