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Question 1

6/6 Points

Implementation: A web service needs an interface, an implementation and publisher. please order the implementation code

```
package ch01.ts; //time server
import java.util.Date; import javax.jws.WebService;
@WebService(endpointInterface="ch01.ts.TimeServer")
public class TimeServerImpl implements TimeServer{
public String getTimeAsString() { return new Date().toString(); } public long getTimeAsElapsed(){ return new
Date().getTime(); }
}
```

Question 2

7/7 Points

Interface: A web service needs an interface, an implementation and publisher. please order the Interface code

```
package ch01.ts; //time server
import javax.jws.WebService; import javax.jws.WebMethod; import javax.jws.soap.SOAPBinding; import
javax.jws.soap.SOAPBinding.Style;
@WebService
@SOAPBinding(style=Style.RPC)
public interface TimeServer {
@WebMethod String getTimeAsString(); @WebMethod long getTimeAsElapsed();
}
```

Question 3

6/6 Points

Publisher: A web service needs an interface, an implementation and publisher. please order the Publisher code

```
package ch01.ts;
import javax.xml.ws.Endpoint;
public class TimeServerPublisher{
public static void main(String[] args){
Endpoint.publish(
}}
}
```

Question 4

9/9 Points

Client: Order the client program to access the web service

```
package ch01.ts;
import javax.xml.namespace.QName; import javax.xml.ws.Service; import java.net.URL;
class TimeClient{
public static void main(String args[]) throws Exception{
URL url = new URL(
Service service = Service.create(url,qname);
TimeServer eif = service.getPort(TimeServer.class);
System.out.println(eif.getTimeAsString()); System.out.println(eif.getTimeAsElapsed());
}}
```

Question 5

4/4 Points

Match the commands with its usage

1. compiles all the interface, implementation, publisher and client under cho1.ts package
2. publishes the web service
3. runs the client program to access the service
4. accesses the wsdl file exposed by the web service

javac ch01/ts/*.java - compiles all the interface, implementation, publisher and client under cho1.ts package

java ch01.ts.TimeServerPublisher - publishes the web service

java ch01.ts.TimeClient - runs the client program to access the service

http://localhost:9876/myts?wsdl - accesses the wsdl file exposed by the web service