

**Question No: 33 ( Marks: 2 )**

**What impact a JavaBeans object can produce when it is stored in Servlet Request object?**

**Answer:- rep**

**Question No: 34 ( Marks: 2 )**

**What invokes a thread's run () method?**

**Answer:- [Click here for detail](#)**

After a thread is started, via its start() method or that of the Thread class, the JVM invokes the thread's run() method when the thread is initially executed.

**Question No: 35 ( Marks: 3 )**

**What is the significance of error page?**

**Answer:- rep**

**Question No: 36 ( Marks: 3 )**

**Which type of information can be appended to URL?**

**Answer:- rep**

**Question No: 37 ( Marks: 3 )**

**Differentiate between Sequential Execution and multithreading.**

**Answer:- rep**

**Question No: 38 ( Marks: 5 )**

**Which technology is used in JAVA to support following layers?**

**Answer:- rep**

**Question No: 39 ( Marks: 5 )**

**How cookies are sent to a client?**

**Answer:- (Page 299)**

**Sending Cookies to Browser**

Following are some basic steps to send a cookie to a browser (client).

**1.Create a Cookie Object**

A cookie object can be created by calling the Cookie constructor, which takes two strings: the cookie name and the cookie value.

```
Cookie c = new Cookie ("name", "value");
```

## 2. Setting Cookie Attributes

Before adding the cookie to outgoing headers (response), various characteristics of the cookie can be set. For example, whether a cookie persists on the disk or not. If yes then how long.

A cookies by default, lasts only for the current user session (i.e. until the user quits the session) and will not be stored on the disk.

Using `setMaxAge(int lifetime)` method indicates how much time (in seconds) should elapse before the cookie expires.

```
c.setMaxAge(60); // expired after one hour
```

## 3. Place the Cookie into HTTP response

After making changes to cookie attributes, the most important and unforgettable step is to add this currently created cookie into response. If you forget this step, no cookie will be sent to the browser.

```
response.addCookie(c);
```

### Question No: 40 ( Marks: 10 )

**What are the characteristics of web services?**

**Answer:- (Page 489)**

Web services are XML-based throughout. Pretty much everything in the domain of Web services is defined in XML. For example, the format of the data being exchanged between service user and service provider is defined in XML or the description of web service is defined in XML.

Web services can be dynamically located and invoked. And typically they will be accessed and invoked over both internet and intranet.

### **Interoperable**

Connect across heterogeneous networks using ubiquitous web-based standards

### **Economical**

Recycle components, no installation and tight integration of software

### **Automatic**

No human intervention required even for highly complex transactions

### **Accessible**

Legacy assets & internal apps are exposed and accessible on the web

### **Available**

Services on any device, anywhere, anytime

### **Scalable**

No limits on scope of applications and amount of heterogeneous applications

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**Question No: 41 ( Marks: 10 )**

**What is the usage of sleep (int time) method?**

**Answer:- (Page 235)**

- Causes the currently executing thread to wait for the time (milliseconds) specified
- Waiting is efficient equivalent to non-busy. The waiting thread will not occupy the processor
- Threads come out of the sleep when the specified time interval expires or when interrupted by some other thread
- Thread coming out of sleep may go to the running or ready state depending upon the availability of the processor. The different states of threads will be discussed later
- High priority threads should execute sleep method after some time to give low priority threads a chance to run otherwise starvation may occur
- sleep() method can be used for delay purpose i.e. anyone call Thread.sleep()method
- Note that sleep() method can throw InterruptedException. So, you need try-catch block

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