Multipart & File upload

1. multipart.html

```html
<html>
<head>
<title>멀티파트</title>
<meta http-equiv="Content-Type" content="text/html;charset=UTF-8" />
</head>
<body><center><h2>멀티파트 테스트</h2></center>

<form method="post" action="/servlet/MultipartTest" enctype="multipart/form-data">
    이름: <input type="text" name="submitter"><br />
    업로드할 파일 이름:  <input type="file" name="fileone"><br /><br />
    <input type="submit">
</form>
</body>
</html>
```


2. MultipartTest.java

```java
import java.io.*;
import javax.servlet.*;
import javax.servlet.http.*;

public class MultipartTest extends HttpServlet {

    public void doPost(HttpServletRequest req, HttpServletResponse res)
        throws ServletException, IOException {

        res.setContentType("text/html; charset=UTF-8");
        PrintWriter out = res.getWriter();

        String type = req.getContentType();
        int len = req.getContentLength();

        out.println("<html><head><title>");
        out.println("멀티파트 테스트");
        out.println("</title></head><body>");
        out.println("<center><h2>멀티파트 테스트</h2></center>");
        out.println("MIME : " + type);
        out.println("길이 : " + len);
        out.println("<hr><xmp>");

        ServletInputStream in = req.getInputStream();
        byte[] buf = new byte[1024];
        int n = 0;

        while((n = in.read(buf, 0, 1024)) > 0) {
            out.println(new String(buf, 0, n));
        }

        out.println("</xmp></body></html>");
        in.close();
        out.close();
    }
}
```


3. upload.html
```html
<html>
<head>
<title>파일 업로드</title>
<meta http-equiv="Content-Type" content="text/html;charset=UTF-8" />
</head>
<body><center><h2>파일 업로드</h2></center>
<form action="/servlet/UploadTest" method="post" enctype="multipart/form-data">
이름: <input type="text" name="submitter"><br>
업로드할 파일 이름:  <input type="file" name="file1"><br>
업로드할 파일 이름:  <input type="file" name="file2"><br>
<input type="submit">
</form>
</body>
```

```
75      </html>
76
77
78  4. UploadTest.java
79
80      import java.io.*;
81      import java.util.*;
82      import javax.servlet.*;
83      import javax.servlet.http.*;
84      import com.oreilly.servlet.MultipartRequest;
85
86      public class UploadTest extends HttpServlet {
87
88          public void doPost(HttpServletRequest req, HttpServletResponse res)
89                          throws ServletException, IOException {
90              res.setContentType("text/html;charset=UTF-8");
91              PrintWriter out = res.getWriter();
92              req.setCharacterEncoding("UTF-8");
93
94              String dir = "C:\\temp";
95
96              try {
97                  MultipartRequest multi =
98                      new MultipartRequest(req, dir ,  20 * 1024 * 1024);
99
100                 out.println("<HTML>");
101                 out.println("<HEAD><TITLE>파일 업로드</TITLE></HEAD>");
102                 out.println("<BODY>");
103                 out.println("<H2>파일 업로드</H2>");
104
105                 out.println("<H3>Params:</H3>");
106                 out.println("<PRE>");
107                 Enumeration params = multi.getParameterNames();
108                 while (params.hasMoreElements()) {
109                     String name = (String)params.nextElement();
110                     String value = multi.getParameter(name);
111                     out.println(name + " = " + value);
112                 }
113                 out.println("</PRE>");
114
115                 out.println("<H3>업로드된 파일</H3>");
116                 out.println("<PRE>");
117                 Enumeration files = multi.getFileNames();
118                 while (files.hasMoreElements()) {
119                     String name = (String)files.nextElement();
120                     String filename = multi.getFilesystemName(name);
121                     String type = multi.getContentType(name);
122                     File f = multi.getFile(name);
123                     out.println("파라메터 이름: " + name);
124                     out.println("파일 이름: " + filename);
125                     out.println("파일 타입: " + type);
126                     if (f != null) {
127                         out.println("크기: " + f.length());
128                         out.println();
129                     }
130                 }
131                 out.println("</PRE>");
132             } catch (Exception e) {
133                 out.println("<PRE>");
134                 e.printStackTrace(out);
135                 out.println("</PRE>");
136             }
137             out.println("</BODY></HTML>");
138         }
139     }
```