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EJERCICIO 1:

```
package com.Emergentes;

import java.io.IOException;
import java.io.PrintWriter;
import java.util.Scanner;
import javax.servlet.ServletException;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;

@WebServlet(name = "Edad", urlPatterns = {"/Edad"})
public class Edad extends HttpServlet {

    Scanner reader = new Scanner(System.in);

    @Override
    protected void doGet(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException {
        response.setContentType("text/html;charset=UTF-8");
        PrintWriter out = response.getWriter();
        try{
            out.println("<!DOCTYPE html>");
            out.println("<html>");
            out.println("<head>");
            out.println("<title>Edad de una persona</title>");
            out.println("</head>");
            out.println("<body>");
            out.println("<form action='\"' method='POST'>");

            out.println("<h1>CALCULAR EDAD DE UNA PERSONA</h1>");
            out.println("<table border='0'>");
                out.println("<tr>");
                    out.println("<td>Año actual :</td>");
                    out.println("<td><input type='number' name='actual' value='\"' /> </td>");
                out.println("</tr>");

                out.println("<tr>");

                    out.println("<td>Año de nacimiento :</td>");
```

```

        out.println("<td><input type='number' name='nacimiento' value=" /></td>");
        out.println("<td><input type='submit' value='Enviar' /></td>");
        out.println("</tr>");
        out.println("</table>");
        out.println("</form>");
        out.println("</body>");
        out.println("</html>");
    }finally{
        out.close();
    }
}

@Override
protected void doPost(HttpServletRequest request, HttpServletResponse response)
    throws ServletException, IOException {
    //processRequest(request, response);
    int actual = Integer.getInteger("actual");
    int nacimiento = Integer.getInteger("nacimiento");
    response.setContentType("text/html;charset=UTF-8");
    PrintWriter out = response.getWriter();
    try{
        out.println("<!DOCTYPE html>");
        out.println("<html>");
        out.println("<head>");
        out.println("<title>Edad de una persona</title>");
        out.println("</head>");
        out.println("<body>");
        out.println("<h1>DATOS RECIBIDOS</h1>");
        int edad;
        if(actual >= nacimiento){
            edad = actual - nacimiento;
            out.println("La edad es : " + edad);
        }
        else{
            out.println(" ");
        }
        out.println("</body>");
        out.println("</html>");
    }finally{
        out.close();
    }
}
}

```

EJERCICIO 2:

```

package com.Emergentes;

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;

@WebServlet(name = "Dolar_Boliviano", urlPatterns = {"/Dolar_Boliviano"})
public class Dolar_Boliviano extends HttpServlet {
    @Override
    protected void doGet(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException {
        response.setContentType("text/html;charset=UTF-8");
        PrintWriter out = response.getWriter();
        try {
            out.println("<!DOCTYPE html>");
            out.println("<html>");
            out.println("<head>");
            out.println("<title>Servlet Ejercicio2</title>");
            out.println("</head>");
            out.println("<body>");
            out.println("<h1>DOLAR_BOLIVIANO</h1>");
            out.print("<form action='\"' method='post'>");
            out.println("monto:");
            out.println("<input type='double' name='text1' required>");
            out.println("<br><br>");
            out.println("<td>Ingrese el tipo de cambio:</td>");
            out.println("<br><br>");
            out.println("<input type='radio' name='text2' value='bol' checked='false' required>Bolivianos<br>");
            out.println("<input type='radio' name='text2' value='dolar' checked='false' required>Dolares<br>");
            out.println("<br><br>");
            out.println("<td><input type='submit' value='enviar' name='cambiar'></td>");
            out.println("</form>");
            out.println("<br>");

            out.println("</body>");
            out.println("</html>");
        }finally{
            out.close();
        }
    }
}

```

```
@Override
protected void doPost(HttpServletRequest request, HttpServletResponse response)
```

```
throws ServletException, IOException {
    response.setContentType("text/html;charset=UTF-8");
    PrintWriter out = response.getWriter();

    try{
        double monto=0, tip=6.86, tip2=0.15, resultado=0;
        String str=request.getParameter("text2");
        monto=Double.parseDouble(request.getParameter("text1"));
        //tip=Double.parseDouble(request.getParameter("text2"));
        //tip2=Double.parseDouble(request.getParameter("text2"));
        out.println("<!DOCTYPE html>");
        out.println("<html>");
        out.println("<head>");
        out.println("<title>CAMBIO DEL MONTO</title>");
        out.println("</head>");
        out.println("<body>");
        out.println("<h1>EL MONTO ES :</h1>");
        if(str.equals("bol")){

            resultado = monto*tip;

        }

        if(str.equals("dolar")){
            resultado = monto*tip2;

        }
        out.println(resultado);
    } finally{
        out.close();
    }
}
```

EJERCICIO 3:

```
package com.Emergentes;
```

```
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;
```

```
@WebServlet(name = "Operaciones", urlPatterns = {"/Operaciones"})
public class Operaciones extends HttpServlet {
```

```
    @Override
```

```
protected void doGet(HttpServletRequest request, HttpServletResponse response)
throws ServletException, IOException {
    response.setContentType("text/html;charset=UTF-8");
    PrintWriter out = response.getWriter();
    try {
        out.println("<!DOCTYPE html>");
        out.println("<html>");
        out.println("<head>");
        out.println("<title>Servlet Ejercicio3</title>");
        out.println("</head>");
        out.println("<body>");
        out.println("<br><br>");
        out.println("<center>");
        out.println("<h1>OPERACIONES</h1>");
        out.print("<form action='\"' method='post'>");
        out.println("<table cellpadding=5 cellspacing=2 border=1>");
        out.println("<tr>");
        out.println("<td>");
        out.println("<input type='radio' name='r1' value='sum' checked='false' required>Suma<br>");
        out.println("<input type='radio' name='r1' value='resta' checked='false' required>Resta<br>");
        out.println("<input type='radio' name='r1' value='mul' checked='false' required>Multiplicacion<br>");
        out.println("<input type='radio' name='r1' value='div' checked='false' required>Division<br>");
        out.println("</td>");
        out.println("</tr>");
        out.println("<tr>");
        out.println("<td>Ingresar primer numero:</td>");

        out.println("<td><input type='text' name='t1'></td>");
        out.println("</tr>");
        out.println("<tr>");
        out.println("<td>Ingresar segundo numero:</td>");
        out.println("<td><input type='text' name='t2'></td>");
```

```

out.println("</tr>");
out.println("<tr>");
out.println("<td><input type='submit' name='procesar'></td>");
out.println("</tr>");
out.println("</table>");
out.println("</form>");
out.println("</center>");
out.println("</body>");
out.println("</html>");
}finally{
out.close();
}

}

```

@Override

```
protected void doPost(HttpServletRequest request, HttpServletResponse response)
```

```
{
response.setContentType("text/html");
```

```
String str = request.getParameter("r1");
String str1 = request.getParameter("t1");
String str2= request.getParameter("t2");
String final_output="";
```

```
int num1 = 0;
```

```
int num2 = 0;
```

```
int num3 = 0;
```

```
num1=Integer.parseInt(str1);
```

```
num2 = Integer.parseInt(str2);
```

```
if(str.equals("sum"))
```

```
{
```

```
num3 =num1+num2;
```

```
final_output= "Suma";
```

```
}
```

```
if(str.equals("resta"))
```

```
{
```

```
num3=num1-num2;
```

```
final_output="Resta";
```

```
}
```

```
if(str.equals("mul"))
```

```
{
```

```
num3 = num1*num2;
```

```
final_output="Multiplicacion";
```

```
}
```

```
if(str.equals("div"))
```

```
{
```

```

num3 = num1/ num2;
final_output ="Division";
}
try
{

PrintWriter printWriter = response.getWriter();
printWriter.println("<p>");
printWriter.print("La operacion matematica seleccionada es : ");
printWriter.println(final_output);
printWriter.print("<p>");
printWriter.println("El resultado es : "+num3);
printWriter.print("<p>");
}catch(Exception e)
{

}

}

}
}

```

EJERCICIO 4:

```

package com.Emergentes;

import java.io.IOException;
import java.io.PrintWriter;
import java.util.Random;
import javax.servlet.ServletException;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;

@WebServlet(name = "Juego_Dados", urlPatterns = {"/Juego_Dados"})
public class Juego_Dados extends HttpServlet {
    @Override
    protected void doGet(HttpServletRequest request, HttpServletResponse response)
    throws ServletException, IOException {
        response.setContentType("text/html;charset=UTF-8");
        PrintWriter out = response.getWriter();
        Random rand= new Random();
        out.println("<title>JUEGO DE DADOS</title>");
    }
}

```

```

try {
int num1 = rand.nextInt(100)+1;
int num2 = rand.nextInt(100)+1;
int sum = num1+num2;
out.println("<!DOCTYPE html>");
out.println("<html>");
out.println("<head>");
out.println("<title>juego de dados</title>");
out.println("</head>");
out.println("<body>");
out.println("<br><br>");
out.println("<center>");
out.println("<h1>JUEGO DE DADOS</h1>");
out.print("<form action=" method='post'>");
out.println("<table cellpadding=5 bgcolor=#959999 colspan=2 rowspa=2 align=center>");
out.println("<tr>");
out.println("</tr>");
out.println("<tr>");
out.println("<td>DADO 1:</td>");

out.println("<td>"+ num1+"</td>");
out.println("</tr>");
out.println("<tr>");
out.println("<td>DADO 2:</td>");
out.println("<td>"+num2+"</td>");
out.println("</tr>");
out.println("<tr>");
out.println("<td> El resultado es: </td>");
out.println("<td>"+ sum+"</td>");
if(sum==7||sum==11){
out.println("<tr>");
out.println("<td>gana el otro jugador</td>");

}
if((sum!=7)&(sum!=11)){
out.println("<center>");
out.println("<tr>");
out.println("<td><center>GANA</td></center>");
out.println("</center>");

}

out.println("</tr>");
out.println("</table>");
out.println("</form>");
out.println("</center>");

```



```

        out.println("</body>");
        out.println("</html>");
    }finally{
        out.close();
    }

}

@Override
protected void doPost(HttpServletRequest request, HttpServletResponse response)
{
    response.setContentType("text/html;charset=UTF-8");

}
}

```

EJERCICIO 5:

```
package com.Emergentes;
```

```

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;

@WebServlet(name = "Caracol", urlPatterns = {"/Caracol"})
public class Caracol extends HttpServlet {
    @Override
    protected void doGet(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException {
        response.setContentType("text/html;charset=UTF-8");
        PrintWriter out = response.getWriter();
        try {
            out.println("<!DOCTYPE html>");
            out.println("<html>");
            out.println("<head>");
            out.println("<title>Servlet Lee</title>");
            out.println("</head>");
            out.println("<body>");
            out.println("<h1>Matriz caracol</h1>");
            String numero=request.getParameter("numero");
            out.print("<form action=" method='post'>");
            out.println("Numero:");
            out.println("<input type='text' name='numero' required >");

```

```

out.println("<br><br>");
out.println("<input type='submit' value='procesar'>");
out.println("</form>");
out.println("</body>");
out.println("</html>");

```

```

}finally {
out.close();
}

```

```

}

```

```

@Override

```

```

protected void doPost(HttpServletRequest request, HttpServletResponse response)
throws ServletException, IOException {

```

```

String str=request.getParameter("numero");
int n=Integer.parseInt(str);
int n2=n;
response.setContentType("text/html;charset=UTF-8");
try (PrintWriter out=response.getWriter()){
out.println("<!DOCTYPE html>");
out.println("<html>");
out.println("<head>");
out.println("<title>matriz</title>");
out.println("</head>");
out.println("<body>");
out.println("<center>");
out.println("<h1> Matriz Caracol N-." +n+ "</h1>");
int x=1;
int[][] caracol = new int [n + 1][n+1];
for(int a=1;a<=n/2;a++){
for (int i=a;i<=n-a;i++){
caracol[a][i]=x;

x++;
}
for(int i=a;i<=n-a;i++){
caracol[i][n-a+1]=x;
x++;
}
for(int i=n-a+1;i>=a+1;i--){
caracol[n-a+1][i]=x;

```

```

x++;

}
for(int i=n-a+1;i>=a+1;i--){
caracol[i][a]=x;
x++;
}

}
if(n%2==1){
caracol[n/2+1][n/2+1]=x;
}

out.println("<table border='2' cellspacing='0'>");
for(int i=1; i<=n2;i++){
out.println("<tr>");
for(int j=1;j<=n2;j++){
out.println("<td>" +caracol[i][j]+ "</td>");
}
out.println("</tr>");
}

out.println("</table>");
out.println("</center>");

}

}
}

```