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                                credit_jsp.txt
<%@page contentType="text/html; charset=ISO-8859-1"%>
<jsp:declaration>
private String Darlehenshoehe( String ti_q,
                                String ti_nJ,
                                String ti_nM,
                                String ti_a)
{
    if (ti_q.equals("0") && ti_nJ.equals("0") &&
        ti_nM.equals("0") && ti_a.equals("0"))
    {
        return "0";
    }

    float k0; // Darlehenshöhe
    float q; //Zinssatz
    float q2, q1;
    float nJ; // Laufzeit Jahr
    float nM; //Laufzeit in Monate
    float n;
    float A; //Annuitätsrate
    float Rz;
    String ti_k0;

    q1 = Float.valueOf(ti_q).floatValue();
    nJ= Float.valueOf(ti_nJ).floatValue();
    nM= Float.valueOf(ti_nM).floatValue();
    A = Float.valueOf(ti_a).floatValue();
    n=nJ+(nM/12);
    q=1+q1/100;

    q2=(float)Math.pow (q,n);

    k0=A/(q2*((q-1)/(q2-1)));
    ti_k0 = String.valueOf(k0);

    return ti_k0;
}

private String Restschuld( String ti_q,
                            String ti_k0,
                            String ti_nJ,
                            String ti_nM,
                            String ti_a)
{
    float k0; // Darlehenshöhe
    float q; //Zinssatz
    float q2,q1;
    float nJ; // Laufzeit Jahr
    float nM; //Laufzeit in Monate
    float n;
    float A; //Annuitätsrate
    float kn;

    q1 = Float.valueOf(ti_q).floatValue();
    k0 = Float.valueOf(ti_k0).floatValue();
    nJ= Float.valueOf(ti_nJ).floatValue();
    nM= Float.valueOf(ti_nM).floatValue();
    A = Float.valueOf(ti_a).floatValue();
    n=nJ+(nM/12);
    q=1+q1/100;

    q2=(float)Math.pow (q,n);

    kn=(k0*q2)-A*((q2-1)/(q-1));
    String ti_kn = String.valueOf(kn);
    return ti_kn;
}

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private String Laufzeit(String ti_q,
                        String ti_k0,
                        String ti_a )

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```

{
    float k0; // Darlehenshöhe
    float q,q1; //Zinssatz
    float n1, n2, n;
    float A; //Annuitätsrate
    float Rz;

    q1 = Float.valueOf(ti_q).floatValue();
    k0 = Float.valueOf(ti_k0).floatValue();
    A = Float.valueOf(ti_a).floatValue();

    q=1+q1/100;
    n1 = (float)Math.log(A/(A-k0*(q-1)));
    n2 = (float)Math.log(q);
    n = n1 / n2;

    String ti_nJ = String.valueOf(n);
    return ti_nJ;
}

```

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private String Annuitaetsrate(String ti_q,
                              String ti_k0,
                              String ti_nJ,
                              String ti_nM)

```

```

{
    float k0; // Darlehenshöhe
    float q, q2, q1; //Zinssatz
    float nJ, nM, n;
    float A; //Annuitätsrate
    float Rz;

    q1 = Float.valueOf(ti_q).floatValue();
    k0 = Float.valueOf(ti_k0).floatValue();
    nJ= Float.valueOf(ti_nJ).floatValue();
    nM= Float.valueOf(ti_nM).floatValue();
    n=nJ+(nM/12);
    q=1+q1/100;

    q2=(float)Math.pow (q,n);
    A=k0*q2*((q-1)/(q2-1));

    String ti_a = String.valueOf(A);
    return ti_a;
}

```

```

private String Rueckzahlung(String ti_nJ,
                            String ti_nM,
                            String ti_a)

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```

{
    float RzJ,RzM;

    RzJ=Float.valueOf(ti_nJ).floatValue()*Float.valueOf(ti_a).floatValue();
    RzM=Float.valueOf(ti_nM).floatValue()*Float.valueOf(ti_a).floatValue()/12;

    String ti_RZ = String.valueOf(RzJ+RzM);
    return ti_RZ;
}

```

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</jsp:declaration>

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<%
// Inhalte der Felder entweder von voriger (selben) Seite uebernehmen
// oder mit dem Defaultwert vorbelegen
String t_k0="0"; String t_q="0"; String t_nJ="0"; String t_nM="0";
String t_a="0"; String t_kn="0"; String t_RZ="0"; String fun_wanted="selected";

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                                credit.jsp.txt
fun_wanted="Darlehenshöhe"; String tmp="";

tmp=request.getParameter("f_Dar1");    if (tmp==null) t_k0="0"; else t_k0=tmp;
tmp=request.getParameter("f_Zinssatz"); if (tmp==null) t_q="0"; else t_q=tmp;
tmp=request.getParameter("f_LaufzJ");   if (tmp==null) t_nJ="0"; else t_nJ=tmp;
tmp=request.getParameter("f_LaufzM");   if (tmp==null) t_nM="0"; else t_nM=tmp;
tmp=request.getParameter("f_Annuitr");  if (tmp==null) t_a="0"; else t_a=tmp;
tmp=request.getParameter("f_Rest");     if (tmp==null) t_kn="0"; else t_kn=tmp;
tmp=request.getParameter("f_Rueckz");   if (tmp==null) t_Rz="0"; else t_Rz=tmp;
tmp=request.getParameter("o_Art");
if (tmp==null) fun_wanted="Darlehenshöhe"; else fun_wanted=tmp;

String s1= "selected"; String s2= ""; String s3= "";
String s4= ""; String s5="";

if (fun_wanted.equals("Darlehenshöhe"))
{
    t_k0=Darlehenshoehe(t_q,t_nJ,t_nM,t_a);
    s1= "selected"; s2= ""; s3= ""; s4= ""; s5="";
}
else if (fun_wanted.equals("Laufzeit"))
{
    t_nJ=Laufzeit(t_q,t_k0,t_a );
    s1= ""; s2= "selected"; s3= ""; s4= ""; s5="";
    t_nM="0";
}
else if (fun_wanted.equals("Annuitätsrate"))
{
    t_a= Annuitaetsrate(t_q,t_k0,t_nJ,t_nM);
    s1= ""; s2= ""; s3= "selected"; s4= ""; s5="";
}
else if (fun_wanted.equals("Restschuld"))
{
    t_kn=Restschuld(t_q,t_k0,t_nJ,t_nM,t_a);
    s1= ""; s2= ""; s3= ""; s4= "selected"; s5="";
}
else if (fun_wanted.equals("Rückzahlung"))
{
    t_Rz=Rueckzahlung(t_nJ,t_nM,t_a);
    s1= ""; s2= ""; s3= ""; s4= ""; s5="selected";
}
else // internet Fehler
{
    s1= "selected"; s2= ""; s3= ""; s4= ""; s5="";
}
%>
<html>
<head>
<title> Kreditrechner </title>
</head>
<body>
<form name="Kreditrechner" action="credit.jsp"
        enctype="application/x-www-form-urlencoded method="get">
<table border="0" cellpadding="1" cellspacing="2" width="300">
<tr>
<td>Darlehenshöhe in &euro;</td>
<td><input type="text" name="f_Dar1" value="<%=t_k0%>" size="15"></td>
</tr>
<tr>
<td>Zinssatz in %</td>
<td><input type="text" name="f_Zinssatz" value="<%=t_q%>" size="15"></td>
</tr>
<tr>
<td>Laufzeit in Jahren</td>
<td><input type="text" name="f_LaufzJ" value="<%=t_nJ%>" size="15"></td>
</tr>
<tr>
<td>und Monaten</td>

```

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                                credit_jsp.txt
<td><input type="text" name="f_LaufzM" value="<%=t_nM%>" size="15"></td>
</tr>
<tr>
<td>Annuit&auml;tsrate in &euro;</td>
<td><input type="text" name="f_Annuitr" value="<%=t_a%>" size="15"></td>
</tr>
<tr>
<td>Restschuld in &euro;</td>
<td><input type="text" name="f_Rest" value="<%=t_kn%>" size="15"></td>
</tr>
<tr>
<td>R&uuml;ckzahlungsbetrag in &euro;</td>
<td><input type="text" name="f_Rueckz" value="<%=t_Rz%>" size="15"></td>
</tr>
<tr>
<td align="center"><select name="o_Art" size="1">
    <option <%=s1%>>Darlehensh&ouml;he
    <option <%=s2%>>Laufzeit
    <option <%=s3%>>Annuit&auml;tsrate
    <option <%=s4%>>Restschuld
    <option <%=s5%>>R&uuml;ckzahlung
</select></td>
<td align="center"><input type="submit" value="Rechnen"
    name="submitButtonName"></td>
</tr>
</table>
</body>
</html>

```