

Practical No. 3

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Title: Develop an interest calculation application in which the user will provide all information in HTML form and that will be processed by Servlet and the response will be generated back to the user.

Html Code:

```
<html>
  <head>
    <title>Compound Interest</title>
  </head>
  <body>
    <form action="Practical3" method="get">
      Enter Principal Amount : <input type="number" name="p"><br><br>
      Enter time(in years) : <input type="number" name="t"><br><br>
      Enter the Annual Interest Rate in % : <input type="number" name="r"><br><br>
      <input type="submit" value="Find">
    </form>
  </body>
</html>
```

Java Code:

```
import java.io.IOException;
import java.io.PrintWriter;
import javax.servlet.ServletException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;

public class Practical3 extends HttpServlet {

    protected void doGet(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException {
        PrintWriter out=response.getWriter();
        response.setContentType("text/html;charset=UTF-8");
    }
}
```

```

//reading values from user entered in html page
String p = request.getParameter("p");
String t = request.getParameter("t");
String r = request.getParameter("r");
//calculating the amount after adding interest
double ci = Float.parseFloat(p) * Math.pow(1 + (((Float.parseFloat(r))/100 / 12)), 12 *
Float.parseFloat(t));
//calculating interest value
double cilInterest=ci-Float.parseFloat(p);
//printing the ouput
out.println("The compound interest is "+cilInterest +" Rs & ");
out.println("\r\n"+"the amount after " + t + " years is "+ ci + " Rs");
}
}

```

Output:

Compound Interest

Enter Principal Amount : 5000

Enter time(in years) : 10

Enter the Annual Interest Rate in % : 5

Find

