

**8. Develop an application for Bank Account information using Java Beans. This application will perform various operation on bank account like withdraw, deposit and displaying the information.**

**BankAccount.java**

```
package beans;
```

```
import java.io.Serializable;
```

```
public class BankAccount implements Serializable {
```

```
    private String accountHolder;
```

```
    private double balance;
```

```
    public BankAccount() {
```

```
        this.accountHolder = "Gaurav";
```

```
        this.balance = 0.0;
```

```
    }
```

```
    public String getAccountHolder() {
```

```
        return accountHolder;
```

```
    }
```

```
    public void setAccountHolder(String accountHolder) {
```

```
        this.accountHolder = accountHolder;
```

```
    }
```

```
    public double getBalance() {
```

```
        return balance;
```

```
    }
```

```

public void deposit(double amount) {
    if (amount > 0) {
        balance += amount;
    }
}

public boolean withdraw(double amount) {
    if (amount > 0 && amount <= balance) {
        balance -= amount;
        return true;
    }
    return false;
}
}

```

### **Index.jsp**

```

<%@ page language="java" import="beans.BankAccount" %>
<jsp:useBean id="account" class="beans.BankAccount" scope="session" />
<jsp:setProperty name="account" property="accountHolder" param="name" />

<html>
<head>
    <title>Bank Account</title>
</head>
<body>
    <h2>Welcome, <jsp:getProperty name="account" property="accountHolder" /></h2>
    <p>Current Balance: <jsp:getProperty name="account" property="balance" /></p>

    <form action="process.jsp" method="post">

```

```

        <label>Deposit Amount:</label>

        <input type="text" name="depositAmount">

        <input type="submit" name="action" value="Deposit">

    </form>

    <form action="process.jsp" method="post">

        <label>Withdraw Amount:</label>

        <input type="text" name="withdrawAmount">

        <input type="submit" name="action" value="Withdraw">

    </form>

</body>
</html>

```

### **Process.jsp**

```

<%@ page language="java" import="beans.BankAccount" %>
<jsp:useBean id="account" class="beans.BankAccount" scope="session" />

<%

    String action = request.getParameter("action");

    if ("Deposit".equals(action)) {

        double depositAmount =
Double.parseDouble(request.getParameter("depositAmount"));

        account.deposit(depositAmount);

    } else if ("Withdraw".equals(action)) {

        double withdrawAmount =
Double.parseDouble(request.getParameter("withdrawAmount"));

        if (!account.withdraw(withdrawAmount)) {

            out.println("<script>alert('Insufficient Balance!');</script>");

        }

    }

```

```
}  
response.sendRedirect("index.jsp");  
%>
```