

# Assignment 4

## Internet Programming

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BE - CSE

PHP Program to generate a chessboard using HTML table

\* Use nested for loops the outer loop creates rows (8 rows) and the inner loop creates columns (8 columns)

\* Alternate colors using the sum of row and column indices : If  $(row + col) \% 2 == 0$ , Color it White; else black

Code

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<style>
```

```
table {
```

```
width: 400px;
```

```
border-collapse: collapse;
```

```
}
```

```
td {
```

```
width: 30px
```

```
height: 30px;
```

```
}
```



```
</style>
```

```
</head>
```

```
<body>
```

```
<table border="1">
```

```
<?PHP
```

```
for($row = 0; $row < 8; $row++) {
```

```
echo "<tr>"
```

```
for ($col = 0; $col < 8; $col++) {
```

```
$color = ($row + $col) % 2 == 0 ? "white" :  
'black';
```

```
echo "<td style = 'background-color:"
```

```
$color; '></td>";
```

```
}
```

```
echo "</tr>";
```

```
}
```

```
?>
```

```
</table>
```

```
</body>
```

```
</html>
```

DTD for four-stroke motorbikes.

## DTD code

<!ELEMENT Catalog (<motorbike+>)>

<!ELEMENT Motorbike (make, model, year, color, engine, chasis-number, accessories)>

<!ELEMENT Make (#PCDATA)>

<!ELEMENT model (#PCDATA)>

<!ELEMENT year (#PCDATA)>

<!ELEMENT color (#PCDATA)>

<!ELEMENT chasisnumber (#PCDATA)>

<!ELEMENT engine (Engine-number, number-of-cylinder, type-of-fuel)>

<!ELEMENT engine-number (#PCDATA)>

<!ELEMENT number-of-cylinder (#PCDATA)>

<!ELEMENT type-of-fuel (#PCDATA)>

<!ELEMENT accessories EMPTY>

<!ATTLIST accessories



disc-brake (yes/no) # Required

auto-start (yes/no) # Required

radio (yes/no) # Required

>

- 3) XSLT stylesheet to transform xmc-student Data Into HTML Table.

XSLT

```
<?xml version="1.0" encoding="UTF-8"?>
```

```
<xsl:stylesheet version="1.0"
```

```
xmlns:xsl="https://www.w3.org/1999/xsl Transform
```

```
>
```

```
<xsl:template match="/">
```

```
<html>
```

```
<head><title>student Database</title></
```

```
<body>
```

```
<h2>Student list</h2>
```

```
<tr>
```

```
<th>Name</th>
```

```
<th>Roll</th>
```

```
<th>Class</th>
```

```
</tr>
```

`<xsl:for-each select = "student/student">`  
`<tr>`

`<td><xsl:value-of select = "name"/></td>`

`<td><xsl:value-of select = "roll"/></td>`

`<td><xsl:value-of select = "class"/></td>`  
`</tr>`

`</xsl:for-each>`

`</table>`

`</body>`

`</html>`

`</xsl:template>`

`</xsl:stylesheet>`