Lab-8

1. Develop XML document that will hold player (Like Cricket) collection with field for player-name, age, batting-average and highest-score, write suitable schema for the XML.

XML :-

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

<?xml-stylesheet *type*="text/xsl" *href*="cricket.xsl"?>

<!DOCTYPE cricket SYSTEM "cricket.dtd">

<cricket>

    <player>

        <player\_name>Virat Kohli</player\_name>

        <balling\_avg>23.45</balling\_avg>

        <highest\_score>183</highest\_score>

    </player>

    <player>

        <player\_name>Rohit Sharma</player\_name>

        <balling\_avg>32.15</balling\_avg>

        <highest\_score>264</highest\_score>

    </player>

    <player>

        <player\_name>MS Dhoni</player\_name>

        <balling\_avg>12.67</balling\_avg>

        <highest\_score>183</highest\_score>

    </player>

    <player>

        <player\_name>Jasprit Bumrah</player\_name>

        <balling\_avg>22.65</balling\_avg>

        <highest\_score>10</highest\_score>

    </player>

    <player>

        <player\_name>Hardik Pandya</player\_name>

        <balling\_avg>29.58</balling\_avg>

        <highest\_score>92</highest\_score>

    </player>

</cricket>

DTD :-

<!ELEMENT cricket (player+)>

<!ELEMENT player (player\_name, balling\_avg, highest\_score)>

<!ELEMENT player\_name (#PCDATA)>

<!ELEMENT balling\_avg (#PCDATA)>

<!ELEMENT highest\_score (#PCDATA)>

XSD :-

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

<xs:schema *xmlns:xs*="http://www.w3.org/2001/XMLSchema">

    <xs:element *name*="cricket">

        <xs:complexType>

            <xs:sequence>

                <xs:element *name*="player" *maxOccurs*="unbounded">

                    <xs:complexType>

                        <xs:sequence>

                            <xs:element *name*="player\_name" *type*="xs:string" />

                            <xs:element *name*="balling\_avg" *type*="xs:string" />

                            <xs:element *name*="highest\_score" *type*="xs:string" />

                        </xs:sequence>

                    </xs:complexType>

                </xs:element>

            </xs:sequence>

        </xs:complexType>

    </xs:element>

</xs:schema>

XSL :-

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

<xsl:stylesheet *version*="1.0" *xmlns:xsl*="http://www.w3.org/1999/XSL/Transform">

    <xsl:template *match*="/">

        <html>

            <head>

                <title>Cricket Players</title>

                <style>

                    table {

                        width: 50%;

                        border-collapse: collapse;

                        margin: 20px 0;

                    }

                    table, th, td {

                        border: 1px solid black;

                    }

                    th, td {

                        padding: 10px;

                        text-align: center;

                    }

                    th {

                        background-color: #f2f2f2;

                    }

                </style>

            </head>

            <body>

                <h2>Cricket Players Statistics</h2>

                <table>

                    <tr>

                        <th>Player Name</th>

                        <th>Bowling Average</th>

                        <th>Highest Score</th>

                    </tr>

                    <xsl:for-each *select*="cricket/player">

                        <tr>

                            <td><xsl:value-of *select*="player\_name"/></td>

                            <td><xsl:value-of *select*="balling\_avg"/></td>

                            <td><xsl:value-of *select*="highest\_score"/></td>

                        </tr>

                    </xsl:for-each>

                </table>

            </body>

        </html>

    </xsl:template>

</xsl:stylesheet>