

CSC343 Worksheet 10 Solution

June 28, 2020

1. a) **Notes:**

- XPATH and Selecting Nodes
 - nodename
 - * Selects all nodes with the name "nodename"
 - /
 - * Selects from the root node
 - //
 - * Selects node in the document from the current node that match the selection no matter where they are
 - .
 - * Select the current node
 - ..
 - * Selects the parent of the current node
 - @
 - * Selects attributes

Example:

```
1 /StarMovieData/Star//City
2
```

- selects all City element in

```
<StarMovieData>
  <Star>
    Here :)
  </Star>
</StarMovieData>
```

- Wildcards *
 - Is used to say 'any tag'

Example:

```

1 /StarMovieData/*/@*
2

```

- '@*' means any attributes
- '*' means any tag
- Context of Expressions
 - [...] means that exists or there exists
 - [integer] selects ith child of its parent
 - [Tag] selects elements that have one or more sublements with 'Tag'
 - [Attribute] selects elements that have attribute 'Attribute'

Example:

```

1 /StarMovieData/Star[//City = "Malibu"]/Name
2

```

* Means select all Star Name that contains City with value 'Malibu'

Example:

```

1 /Movies/Movie/Version[1]/@year
2

```

- * Returns value of 'year' attribute of first 'Version' tag in 'Movie'
- * e.g. 1933 and 1984

```

1) <? xml version="1.0" encoding="utf-8" standalone="yes" ?>
2) <Movies>
3)   <Movie title = "King Kong">
4)     <Version year = "1933">
5)       <Star>Fay Wray</Star>
6)     </Version>
7)     <Version year = "1976">
8)       <Star>Jeff Bridges</Star>
9)       <Star>Jessica Lange</Star>
10)    </Version>
11)    <Version year = "2005" />
12)  </Movie>
13)  <Movie title = "Footloose">
14)    <Version year = "1984">
15)      <Star>Kevin Bacon</Star>
16)      <Star>John Lithgow</Star>
17)      <Star>Sarah Jessica Parker</Star>
18)    </Version>
19)  </Movie>
20) </Movies>

```

Result of
/Movies/Movie/Version[1]/@year