

# ASSIGNMENT

By

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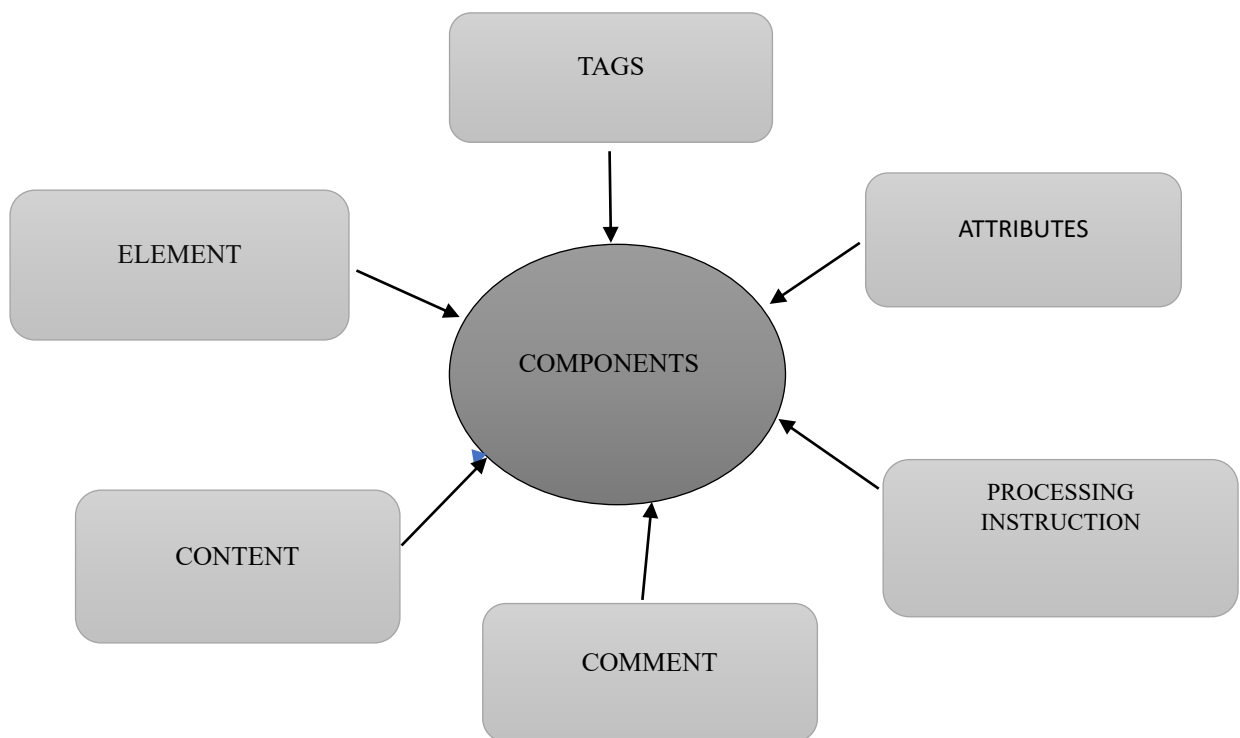
Jammu, India

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**(A) Explain the key component of XML.**

The file is similar to any text document that allows you to write and save data. It has a '.xml' extension. XML (Extensible Markup Language) consists of several key components that collectively define the structure and content of an XML document. The file can be created by following:

- Text editors like Notepad or Notepad++
- Online XML editors
- Web browsers

**COMPONENT OF XML:****“Figure 1: Component of XML”****1. TAGS:**

- *Opening Tag*: The start of an element, enclosed in angle brackets (<). For example, <book>.
- *Closing Tag*: The end of an element, also enclosed in angle brackets but with a forward slash (</). For example, </book>.
- *Empty Element Tag*: An element without content can be represented in a self-closing tag. For example, '<emptyElement />'.

## 2.ATTRIBUTES:

Attributes provide additional information about the elements for which they are declared. An attribute consists of a name-value pair.

*For example:*

```
<Student_name S_ID = "103"> Jayanta </ Student_name >
```

## 3.PROCESSING INSTRUCTION:

Processing instructions provide information to applications processing the document but are not part of the document's display. They start with <? and end with?>.

*For example:*

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

## 4.COMMENTS:

Comments are statements used to explain the XML code. They are used to provide documentation information about the XML file or the application to which the file belongs. The parser ignores comments entries during code execution.

*For example:*

```
<!--This is a comment -->.
```

## 5.CONTENT:

Content refers to the information represented by the elements of an XML document.

*For example:*

```
<friend>
<name>Charlie</name>
<name>Steve</name>
</friend>
```

The data values Charlie and Steve are the content.

**6.ELEMENT:** Elements are the fundamental building blocks of an XML document. They consist of opening tags, closing tags, and the content between them. Elements can contain other elements, text, attributes, or a combination of these.

## Citations and References

- 1.Component of xml – <https://www.geeksforgeeks.org/>

**Q2) Write a program that take an integer input from the user and determines if it's odd or even. Display the result.**

- **.JAVASCRIPT**  
**INPUT**

*// program to check if the number is even or odd*

*// take input from the user*

**const number = prompt ("Enter a number: ");**

*//check if the number is even*

**if(number % 2 == 0) {**

**console.log ("The number is even.");**

**}**

*// if the number is odd*

**else {**

**console.log("The number is odd.");**

**}**

**OUTPUT:**

Enter a number: 34

The number is even

### Citations and reference

1.javacode – programiz.com

<https://www.programiz.com/javascript/examples/even-odd>