**Activity 01:**

**Question:**

**Graphical user interface, text, application, email

Description automatically generated**

A picture containing application

Description automatically generated

**Answer:**

**Coding:**

**Text

Description automatically generated**

**Output:**

**Text, letter

Description automatically generated**

**Activity 02:**

**Answer:**

**Coding:**

**Graphical user interface, text

Description automatically generated**

**Output:**

**Graphical user interface, text, application, email

Description automatically generated**

**Activity 03:**

**Answer:**

**Coding:**

**Text

Description automatically generated**

**Output:**

**Graphical user interface, text, application

Description automatically generated**

**Activity 04:**

**Answer:**

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An xml document can be called as a well-formed one when it meets to certain standards. Some of these standards are:

1. Every start tag must have a matching end tag.
2. Any xml document should have one root tag. More than one root tag is not allowed.
3. The nesting of xml tags should be proper. The root, parent and child tags should be appropriately set.
4. The attribute of an xml tag should not be repeat with in the same tag.
5. A well-formed xml document should confirm to its schema or DTD

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To have a valid xml document, it is a process to define a Document Type Definition (DTD) or a xml schema file. This DTD states the tags that are allowed in the xml document and define the rules / conditions for how those tags can be used in relation to each other. It also defines the attributes that a tag can use.

Any document that satisfies this DTD can be called as a valid xml document.

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The product.xml file given for the assignment as is, is a well-formed XML document, but it is missing the DTD document.

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The product.xml file given for the assignment as is, is a valid document as it does not have any DTD to confirm to. As part of the assignment, I added DTD to product.xml file and it is still valid as it confirms to the DTD.