COMPSCI 111/111G

LaTeX 1

1. What is the difference between TeX and LaTeX?

TeX was created by Dennis Knuth and contains the basic commands used to typeset documents prepared in TeX.

LaTeX was created by Leslie Lamport and extends the functionality of TeX, which makes it faster and easier to use.

2. Explain the difference between three full stops in a row and the \ldots command.

The \ldots command is used to insert an ellipsis character into a LaTeX document. Using three full stops in a row is not a substitute for an ellipsis character because the spacing between the characters in the line will be incorrect.

3. Can LaTeX be described as a WYSIWYG application? Explain your answer.

LaTeX commands are used to define the document's content and formatting. The LaTeX compiler then creates a PDF document, which is the finished version of the document. In contrast, the document that is seen in the Microsoft Word GUI is the finished version of the document. Therefore, LaTeX isn't a WYSIWYG application while Microsoft Word is a WYSIWYG application.

4. How many different types of dashes can be used in LaTeX?

There are three; hypens, en dashes and em dashes.

5. Write the LaTeX code used to produce this document:

See the next page

The World Wide Web

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2017

1 Introduction

The World Wide Web has moved from being a platform for use by researchers to something that is *essential* to our everyday lives[1].

2 Protocols

The TCP protocol is used to transport data from source to destination.

$$TCP = transmission\ control\ protocol$$

The IP protocol is based on the end-to-end principle.

```latex
\documentclass[a4paper]{article}

\begin{document}
\title{The World Wide Web}
\author{S. Student}
\date{2017}
\maketitle

\section{Introduction}
The World Wide Web has moved from being a platform for use by researchers to something that
is \emph{essential} to our everyday lives\footnote{Some material from Wikipedia}.

\section{Protocols}
The TCP protocol is used to transport data from source to destination.
\begin{center}
TCP = transmission control protocol
\end{center}
The IP protocol is based on the end-to-end principle.
\end{document}
```