**10. Develop a LaTeX script to design a simple tree diagram or hierarchical structure in the document with appropriate labels using the Tikz library**

**\documentclass{article}**

**% Import the 'tikz' package for creating diagrams**

**\usepackage{tikz}**

**\usetikzlibrary{trees}**

**\begin{document}**

**\title{Simple Tree Diagram or Hierarchical Structure in the Document with appropriate**

**Labels using the Tikz Library}**

**\date{}**

**\maketitle**

**% Create a tree diagram**

**% Wrap the TikZ picture in a 'center' environment to center the diagram**

**\begin{center}**

**\begin{tikzpicture}[**

**level 1/.style={sibling distance=7cm},**

**level 2/.style={sibling distance=4cm},**

**level distance=2cm,**

**every node/.style={font=\large} % Increase font size here (e.g. \large, \Large)**

**]**

**% Root node**

**\node {Root}**

**% Level 1 nodes**

**child { node {Child 1}**

**% Level 2 nodes**

**child { node {Grandchild 1.1} }**

**child { node {Grandchild 1.2} }**

**}**

**child { node {Child 2}**

**% Level 2 nodes**

**child { node {Grandchild 2.1} }**

**child { node {Grandchild 2.2} }**

**};**

**\end{tikzpicture}**

**\end{center}**

**\end{document}**