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%% Sample multilanguage \XeLaTeX file for Bengali, Hindi and English %
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\documentclass[12pt,regno]{article}
\setlength{\textheight}{23cm}
\setlength{\textwidth}{16cm}
\setlength{\topmargin}{-0.8cm}
\setlength{\parskip}{0.3\baselineskip}
\hoffset=-1.4cm
\usepackage{tikz,tikz-cd,tkz-graph}
\usetikzlibrary{matrix,arrows,decorations.pathmorphing}
\usepackage{hyperref}
\hypersetup{
  colorlinks=true,
  linkcolor=blue,
  filecolor=magenta,
  urlcolor=red,
}
\urlstyle{same}
%\usepackage{amsart} %% amsart will not work here.
\usepackage{amsmath,amsfonts,amssymb,amsthm,mathtools,amsxtra,calligra,enumerate,color,mathrsfs} %% Additional Packages for Math %%
\usepackage{metalogo} % This is used to display \XeLaTeX logo only.
\usepackage{fontspec}
\usepackage{polyglossia}
%\usepackage{devanagari} %% Not required
%\setmainfont{FreeSerif} %% Not required
\setdefaultlanguage{english}
\setotherlanguage{bengali}
\newfontfamily\bengalifont[Script=Devanagari]{Lohit Bengali}
\setotherlanguage{sanskrit}
\newfontfamily\devanagarifont[Script=Devanagari]{Lohit Devanagari}

\newcommand{\xra}[2][d]{\overset{#2}{\longrightarrow}}
\newcommand\op {\operatorname}

\newcommand\bngn {\textbengali} % Bengali font with normal/default size, used in title, author-name etc..
\newcommand\bng {\fontsize{11}{12}\textbengali} % Bengali font with fixed size 11 pt, used in the body text.
\newcommand\eng {\textenglish}
\newcommand\hnd {\textsanskrit}

\theoremstyle{plain}
\newtheorem{theorem}{Theorem}[section]
\newtheorem{lemma}[theorem]{Lemma}
\newtheorem{proposition}[theorem]{Proposition}
\newtheorem{corollary}[theorem]{Corollary}

\newtheorem{bngthm}[theorem]{\bng{উপপাদ্য}}
\newtheorem{bnglem}[theorem]{\bng{স্বত:সিদ্ধ}}
\newtheorem{bngprop}[theorem]{\bng{প্রস্তাবনা}}
\newtheorem{bngcor}[theorem]{\bng{অনুসিদ্ধান্ত}}
\newtheorem*{bngproof}{\bng{প্রমাণ}}

%\theoremstyle{remark}
\newtheorem{definition}[theorem]{Definition}
\newtheorem{remark}[theorem]{Remark}

\numberwithin{equation}{section}

\title{\XeLaTeX \, in English, \bngn{বাংলা} \& \hnd{हिन्दी}}
\author{\href{www.math.tifr.res.in/~apmath90/index.html}{\bngn{অর্জুন পাল}}}
\date{May 01, 2017}

\begin{document}

\maketitle
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\section{How to write a multilanguage (\bngn{বাংলা}, English \& \hnd{हिन्दी}) \XeLaTeX \, file?}
\textbf{For Linux users:}
To write multilanguage \LaTeX \, document you first need to do few things listed below.
\begin{itemize}
\item Install 'texlive-full' metapackage [1 GB approx.] (or, 'texlive', 'texlive-lang-indic'), 'kile', 'evince', 'okular', 'fonts-lohit-deva' and 'fonts-lohit-beng-bengali' from the Ubuntu software center or using the following terminal commands.
\\
\texttt{sudo apt-get update \\ sudo apt-get install texlive texlive-lang-indic kile okular \\ sudo apt-get install fonts-lohit-deva fonts-lohit-beng-bengali}

\item Write a tex file, say '\href{http://www.math.tifr.res.in/~apmath90/Bengali/sample.tex}{sample.tex}', similar to \href{http://www.math.tifr.res.in/~apmath90/Bengali/sample.tex.pdf}{this tex file}, and save it.
\item Compile the file using '\texttt{xelatex}' command, e.g. \texttt{xelatex sample.tex} from the terminal or any other

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\end{document}
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