\documentclass{article}
\usepackage{graphicx} % Required for inserting images
\title{MATRIX OPERATION}
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\date{October 2023}
\begin{document}
\maketitle
\textbf{PROJECT OVERVIEW}\\
This Matrix Project is made by using Java-language. It is designed to perform
various mathematical operations on matrices. Matrices are fundamental
mathematical constructs used in numerous fields. I have made this project so
that any one can solve matrix problem effeciently and instantly .This matrix project include operations like Addition,Subtraction,Multiplication,inverse etc. Basically in my point of view getting right solutions of matrices is not very easy,sometime there are kind of questions whose solutions are not available in platforms like google,youtube etc.and student stuck on that particular problem.This project help them in checking there answers and provide the correct answer.\\
\textbf{1. Matrix class}\\
\begin{itemize}
\item For all matrix operation one class has made.\\
\item This class contain methods that perform different matrix operation.\\

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\end{itemize}
\hspace{0.5cm}\text{textbf}{2. Main class}\
  \begin{itemize}
    \item The main class handles user inputs and utilizes object of the matrix class to perform different
operation.\\
    \item Has used switch statement which according to which needen operation executes\\
  \end{itemize}
  \newpage
\textbf{Conclusion}\\
The code provided offers a versatile set of matrix operations, allowing you to perform common tasks
such as addition, subtraction, multiplication, inversion, finding the adjoint, cofactor, skew-symmetric,
and asymmetric matrices etc. These functionalities are essential in various fields, including linear
algebra, physics, and engineering.
This code provides a useful tool for performing these matrix operations, enabling you to work with
matrices effectively and efficiently. It can be extended to include additional matrix-related operations
and functionalities as needed.\\
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\textbf {OUTPUT :-}
Enter the number of rows and columns of matrix A: $2 \times 3$\\
\textbf{Enter the elements of matrix :}
\begin{tabular}{ccc}
\multicolumn{3}{c}{\\
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4 & 2 & 5 \\

1 & 3 & -6

\end{tabular}

Enter the number of rows and columns of matrix B: \$2 \times 3\$\\ \textbf{Enter the elements of matrix :} \begin{tabular}{ccc} $\mbox{multicolumn{3}{c}{}}\$ 1 & 0 & 2 \\ 3 & 1 & 4 \end{tabular} \textbf{Choose an operation:} \begin{enumerate} \item Matrix Addition \item Matrix Subtraction \item Matrix Multiplication \item Matrix Inverse \item Matrix Adjoint \item Matrix Cofactor \item Matrix SkewSymmetric \item Matrix SkewAsymmetric \item Matrix Transpose \item Matrix Rank \end{enumerate} Selected choice: 1\\

Matrix A + B:

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\begin{tabular}{ccc}
\multicolumn{3}{c}{} \\
5.0 & 2.0 & 7.0 \\
4.0 & 4.0 & -2.0
\end{tabular}
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\end{document}