MINI PROJECT REPORT

\documentclass[10pt,a4paper]{article}
\usepackage{amsmath}
\usepackage{listings}
\usepackage{graphicx}
\usepackage{cleveref}
\begin{document}
\begin{center}
\textbf{\huge Mini Project}
\section{ code in c language}
\end{center}
\begin{lstlisting}
#include <stdio.h></stdio.h>
#include <conio.h></conio.h>
char square[10] = { 'o', '1', '2', '3', '4', '5', '6', '7', '8', '9' };
int checkwin();
void board();
void win(int i,int player);
int playersel(int player);
int choicesel(int choice,int player);
int marksel(int player);

```
int main()
  int player, i, choice;
  player=playersel(player);
  char mark;
  do
  {
    board();
    player = (player % 2) ? 1 : 2;
    choice=choicesel(choice,player);
    mark=marksel(player);
    if (choice == 1 && square[1] == '1')
      square[1] = mark;
    else if (choice == 2 && square[2] == '2')
      square[2] = mark;
    else if (choice == 3 && square[3] == '3')
      square[3] = mark;
    else if (choice == 4 && square[4] == '4')
      square[4] = mark;
    else if (choice == 5 && square[5] == '5')
      square[5] = mark;
```

```
else if (choice == 6 && square[6] == '6')
    square[6] = mark;
  else if (choice == 7 && square[7] == '7')
    square[7] = mark;
  else if (choice == 8 && square[8] == '8')
    square[8] = mark;
  else if (choice == 9 && square[9] == '9')
    square[9] = mark;
  else
  {
    printf("Invalid move ");
    player--;
    getch();
  }
  i = checkwin();
  player++;
}while (i == - 1);
board();
```

```
win(i,player);
  getch();
  return 0;
}
int checkwin()
{
if (square[1] == square[2] && square[2] == square[3])
    return 1;
else if (square[4] == square[5] && square[5] == square[6])
    return 1;
else if (square[7] == square[8] && square[8] == square[9])
    return 1;
else if (square[1] == square[4] && square[4] == square[7])
    return 1;
else if (square[2] == square[5] && square[5] == square[8])
    return 1;
else if (square[3] == square[6] && square[6] == square[9])
    return 1;
else if (square[1] == square[5] && square[5] == square[9])
```

```
return 1;
else if (square[3] == square[5] && square[5] == square[7])
    return 1;
else if (square[1] != '1' && square[2] != '2' && square[3] != '3' &&
    square[4] != '4' && square[5] != '5' && square[6] != '6' && square[7]
    != '7' && square[8] != '8' && square[9] != '9')
    return 0;
  else
    return - 1;
}
void win(int i,int player){
  if (i == 1)
    printf("\aPlayer %d win ", --player);
  else
    printf("game over");
}
void board()
{
  system("cls");
  printf("\n\n\tTic Tac Toe\n\n");
```

```
printf("Player 1 (X) - Player 2 (O)\n\n");
  printf(" | \n");
  printf(" %c | %c | %c \n", square[1], square[2], square[3]);
  printf("__|_|_\n");
  printf(" | | \n");
  printf(" %c | %c | %c \n", square[4], square[5], square[6]);
  printf("__|_|_\n");
  printf(" | \n");
  printf("\ %c\ |\ %c\ |\ %c\ |\ %c\ |n", square[7], square[8], square[9]);
  printf(" | \n\n");
int playersel(int player){
 printf("enter player attempt no.");
 scanf("%d",&player);
 player = (player % 2) ? 1 : 2;
 return player;
int choicesel(int choice,int player){
printf("Player %d, enter a number: ", player);
    scanf("%d", &choice);
```

}

}

```
return choice;
}
int marksel(int player){
int mark = (player == 1) ? 'X' : 'O';
return mark;
}
\end{lstlisting}
\begin{figure}
 \centering
 \includegraphics[height=12cm,width=13cm]{Screenshot (38).png}
 \caption{c code output}
 \label{calc code}
\end{figure}
\begin{figure}
 \centering
 \includegraphics[height=12cm,width=13cm]{Screenshot (39).png}
 \caption{ c code output 2}
 \label{calc code}
\end{figure}
\begin{figure}
 \centering
```

\includegraphics[height=12cm,width=13cm]{Screenshot (40).png}
\caption{c code output 3}
\label{calc code}
\end{figure}
\begin{figure}
\centering
\includegraphics[height=12cm,width=13cm]{Screenshot (41).png}
\caption{c code output 4}
\label{casic code}
\end{figure}
\end{document}