

Here is where your digital campaign begins

Table of Contents

- **□1** Tiva™ C Series TM4C123G Launchpad
- 02 X-0 Game
- **03** Project Features
- O4 Project Components
- **05** Project View
- 06 About Us

□1 Tiva™ C Series TM4C123G Launchpad

- ▶ The TM4C123GH6PMI microcontroller.
 - **♥32-bit ARM Cortex-M4-based microcontroller.**
 - Hibernation module.
- ▶ USB 2.0 device interface.
- ▶ On-board In-Circuit Debug Interface (ICDI)
- ▶ Switch-selectable power sources:
 - **₩ICDI**
 - **♥**USB device

X-0 Game



X-D Game is the name of our project. This game is quite popular and simple.



It's a two-player game with a **zero-sum** outcome (gain equals the loss of other).



In this game, there is a board with **3** x **3** squares. the goal is to get three identical symbols in a row - horizontally, vertically, or diagonally.



os Project Features



On the LCD, the player's turn is presented.



The two switches on the board allow you to control your playing position.



We display the winner and keep track of each player's winnings once the game is over.



If the player wishes to play again, I have a question for him.





O4 Project Components

Tiva™ C Series **TM4C123G Launchpad**

⊓okia 5110 LCD display

2 **Push** Buttons

3 **Resistors** (470 Ω)

Breadboard

Jumper Connectors



os Project View



```
TO Alternati Alternati Gambi Gard Computer 2nd Sami Serfico project SCO Came for simulation UID Came.orgen; - philosoph
                                                                                                                                                                     O
File Edit View Project Flack Debug Perlpherals Tools SVCS Window Help
                                                                           - 4 P Q . O P A D- 4
 Ø 10 25 Ø 10 1 1 10 Come
                                  三水 由 中 由
                             mane 1 x0 Game?
                                                                                                                                                                          * X
 III XO Game
  m a Source
                                    * File Hamm: Main.c
    ⊕ BXD Game.c
                                    . Description: Source file for Hain File
         trolc123gh6pm/h
         Notice5110.h
                                    * Authors: Ola Mohamed - Abdelphman Stef - Abdelphman Seetam - Dias Eldin Hassan - Ahmed Gamal - Eassat Muhammed
         (Castle Co.)
                                    Gameleth
         XI Game h
                               21 #include *./headers/Nokia5110.h*
         Timer.h
                               12 #include *,/headers/TExa5.h*
         interrupt.h
                               13 #include "./headers/GF10.h"
                               14 #include *./headers/ND Game.b*
         LEDA
                               15 #include *./headers/Interrupt.h*
     to- 10 Nokia5110.c
                               16
     to B West-c
                               17
                                   int main(wold)
       A) startup s
                               18 84
     in Property
                               19
                                    TEmaS Init (SSIO Real Nokia5110 Scope) :
     to 1 mains
                               20
     in P Interrupt c
                               21
                                    Fortf_Inxxi): // invisiteation Fort F
     (b) B Times.c
                              22
     @ BUDA
                               23
                                    FortB_Init()/
                               24
       LEDA
                                    Wokie5110_Init(): // Intialization Nomia Lod
                               26
                              27
                                    Wokia5110_ClearBuffer(); // Clear buffer for mokia lod
                              25
                              29
                                    Nokia5110_DisplayBuffer(); // draw Buffer
                               30
                               31
                                    GameIntro(); // enter to the game
                               32
                               3.5
                                     GameInitialization(): // reset
                               34
                               35
                                    DrawClearGameMatrix(); // clear data
                               34
                               37
                                     while (1)
                               38 E
                               39
                                     RunGeme () ; // start game
                              40
                               42 )
                               42
Magin Caronini II fun. II. ton.
                                                                                                                                                              CHE MARK SCHOOL CLUB IS NO
                                                                                                                                              ^ $ ING $ 00 10 140 AM D
```





Name

BN

1 Ramzi Muhammad Ramzi

17

2 Ola Muhammad Ahmed

30

3 Abd Al-Rahman Atef

25

4 Abd Al-Rahman Hesham

28

5 Ahmed Gamal Okka

5



6 Diaa Al-Dein Hassan

24