

# Project Name: GUI and Console Tic-Tac-Toe Game

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## Demo

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```

Anaconda Prompt (anaconda3)
(base) C:\Users\Monica\Desktop\Projects\Python Projects 1\17\Game>python Console_TicTacToe.py
- | - | -
- | - | -
- | - | -
X's turn.
Choose position from 1 to 9:5
- | - | -
- | X | -
- | - | -
O's turn.
Choose position from 1 to 9:3
- | - | O
- | X | -
- | - | -
X's turn.
Choose position from 1 to 9:2
- | X | O
- | X | -
- | - | -
O's turn.
Choose position from 1 to 9:8
- | X | O
- | X | -
- | O | -
X's turn.
Choose position from 1 to 9:4
- | X | O
X | X | -
- | O | -
O's turn.
Choose position from 1 to 9:7
- | X | O
X | X | -
O | O | -
X's turn.
Choose position from 1 to 9:6
- | X | O
X | X | X
O | O | -
X won.
(base) C:\Users\Monica\Desktop\Projects\Python Projects 1\17\Game>
```

## Overview

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This is about Game which almost all of us have played named TicTacToe for fun.

This repository contains the code for TicTacToe Game using python libraries.

It used tkinter library for it.

Python when combined with Tkinter library provides a fast and easy way and is used to create GUI applications.

The purpose of creating this repository is to get insights into integration of Python in Game.

These python libraries raised knowledge in discovering these libraries with practical use of it.

It leads to growth in my ML repository.

The above screenshots will help you in understanding the flow of output.

## Motivation

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The reason behind building this is, I have not tried any type of game in python yet. So, I thought creating this would be fun and relaxing also. Reason for selecting TicTacToe Game is because, it's the popular game which everyone has played and its always fun to play. It is also simple to understand. Games helps to transpire from stress and brings joy. GUI version is replication of actual game. Console based game anyone can play even in command prompt. Hence, I continue to gain knowledge while practicing the same and spread literary wings in tech-heaven.

## Technical Aspect

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You don't need to worry about the installation of the Tkinter module separately as it comes with Python already.

Tkinter gives a powerful object-oriented interface to the Tk GUI toolkit.

## Installation

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Using intel core i5 9<sup>th</sup> generation with NVIDIA GFORCE GTX1650.

Windows 10 Environment Used.

Already Installed Anaconda Navigator for Python 3.x

The Code is written in Python 3.8.

If you don't have Python installed then please install Anaconda Navigator from its official site.

If you are using a lower version of Python you can upgrade using the pip package, ensuring you have the latest version of pip, *python -m pip install --upgrade pip and press Enter.*

## Run/How to Use/Steps

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Keep your internet connection on while running or accessing files and throughout too.  
Follow this when you want to perform from scratch.

Open Anaconda Prompt, Perform the following steps:

```
cd <PATH>
```

```
pip install tkinter
```

You can also create requirement.txt file as, `pip freeze > requirements.txt`  
run files.

Follow this when you want to just perform on local machine.

Download ZIP File.

Right-Click on ZIP file in download section and select Extract file option, which will unzip file.

Move unzip folder to desired folder/location be it D drive or desktop etc.

Open Anaconda Prompt, write `cd <PATH>` and press Enter.

eg: `cd C:\Users\Monica\Desktop\Projects\Python Projects 1\17)Game`

In Anconda Prompt, `pip install -r requirements.txt` to install all packages.

In Anconda Prompt, write `<filename>.py` and press Enter. That is,

In Anconda Prompt, write `Console_TicTacToe.py` and press Enter.

In Anaconda Prompt, write `GUI_TicTacToe.py` and press Enter.

I have made two versions of TicTacToe Game.

Please be careful with spellings or numbers while typing filename and easier is just copy filename and then run it to avoid any silly errors.

Note: `cd <PATH>`

[Go to Folder where file is. Select the path from top and right-click and select copy option and paste it next to `cd` one space `<path>` and press enter, then you can access all files of that folder] [cd means change directory]

## Directory Tree/Structure of Project

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Folder: 17)Game

Console\_TicTacToe.py

GUI\_TicTacToe.py

## To Do/Future Scope

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Can try other game as ludo or snakes and ladder.

## Technologies Used/System Requirements/Tech Stack

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## Credits

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DJ Oamen Channel