BVRIT HYDERABAD College of Engineering for Women
Department of Information Technology

HOBBY PROJECT

2048 GAME

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ABSTRACT

2048 GAME

The 2048 game is played on a 4-by-4 square grid that is partially filled with tiles labeled with powers of 2. The primary goal of the game is to merge randomly generated tiles in order to create a tile labeled 2048 . It is one of the best beginner-friendly projects that every novice programmer should take as a challenge. Python offers multiple options for developing GUI (Graphical User Interface). Out of all the GUI methods, tkinter is the most commonly used method. It is a standard Python interface to the Tk GUI toolkit shipped with Python. Python with tkinter is the fastest and easiest way to create the GUI applications. Creating a GUI using tkinter is an easy task.

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INTRODUCTION

- What is game 2048 all about and how to play?
- What is objective of 2048 game ?
- What is logic of 2048 game?

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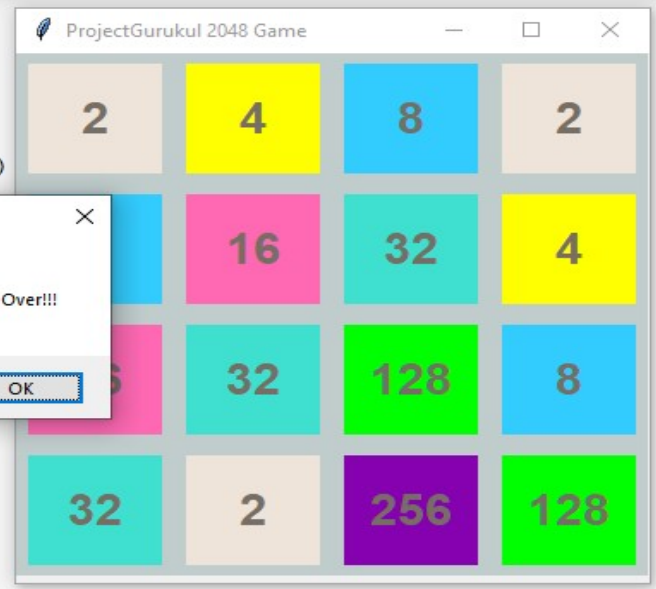
GAME

IMPLEMENTATION AND RESULT

```
                if(self.gamepanel.gridCell[i][j]==2048):
                    flag=1
                    break

        if(flag==1): #found 2048
            self.won=True
            messagebox.showinfo('2048', message='You Wonnn!!')
            print("won")
            return

        for i in range(4):
            for j in range(4):
                if self.gamepanel.gridCell[i][j]=
                    flag=1
                    break

        if not (flag or self.gamepanel.can_merge()):
            self.end=True
            messagebox.showinfo('2048','Game Over!!!')
            print("Over")

        if self.gamepanel.moved:
            self.gamepanel.random_cell()

        self.gamepanel.paintGrid()


gamepanel =Board()
game2048 = Game( gamepanel)
game2048.start()
```



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PROJECT TIMELINE

DATE	DURATION	TASK
19/12/22	1 day	Abstract preparation
20/12/22	2 days	Programming
22/12/22	1 day	Correcting errors
30/12/22	1day	Finalisation

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CONCLUSION

- "2048 Game Solver". The MathWorks, Inc. Retrieved 6 May 2014. Dewey, Caitlin (23 April 2014). "Everything you ever wanted to know about 2048, the Internet's latest impossible hit game". The Washington Post. Retrieved 25 January 2021.

- Chang, Jon (24 March 2014). "'2048' Is the Next Mobile Game to Eat Up Your Time". ABC News. Retrieved 27 March 2014. Olson, Randy (23 May 2015). "Artificial Intelligence crushed all human records in the addictive tile game 2048 — here's how". Insider. Retrieved 30 August 2022.

- Price, Rob (2 March 2020). "This hyper-addictive math game is driving the Internet insane". Daily Dot. Retrieved 25 January 2021.

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- "2048 Game Solver". The MathWorks, Inc. Retrieved 6 May 2014. Dewey, Caitlin (23 April 2014). "Everything you ever wanted to know about 2048, the Internet's latest impossible hit game". The Washington Post. Retrieved 25 January 2021.

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