## BOUNCING BALL TEAM -1

Date:22-04-2022



#### TEAM MEMBERS

20B01A1269- K.Navya Sri IT

20B01A1272- K.Geetha IT

20B01A1271- K.Kavya IT

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"Bouncing Ball" is fun game. It is a single player game. The goal of the game is to clear the balls in the playing field by hitting them with a ball from the paddle. The game ends when ball touches the ground.

### Description

The game starts when user press 'Enter' button. The ball on the paddle hits the balls at the top of the Game board and it bounce back to bottom of the screen. The ball should hit the paddle to bounce again. The game ends when ball touches the ground without touching the paddle.



# Project Flow

Day 1	Brainstorming ideas on problem description
Day 2	Worked on the modules of tkinter and created canvas
Day 3	Built the logic and GUI
Day 4	Worked on the LaTeX, gitlab and Debugging
Day 5	Presentation



### TEAM CONTRIBUTION

- 20B01A1269 Building code ,creating project in GitLab ,Preparing the LaTeX
- 20B01A1271 Collecting the requirements, Building code
- 20B01A1272 Collecting information on code, helping in building code
- 20B01A0266 Helping in presentation, building the code
- 20B01A0265 Preparing LaTeX file, collecting requirements
- 20B01A0261 Building the code, latex



### Challenges

- Creating GUI window
- We faced difficulty to move the paddle in certain direction
- We faced a hurdle in bouncing the ball in bottom direction



#### OVERCOMING CHALLENGES

- Using tkinter package we create the GUI widow
- Solved the problem by using modular approach
- By dividing the problems into parts and working on each module separately



# Learnings

- Tkinter
- Random module
- Time module
- Canvas



### Tech Stack

- Programming Languages used: Python
- Tools used: idle
- Packages used:tkinter ,time, random

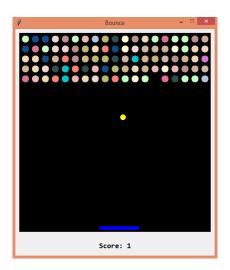


#### CODE

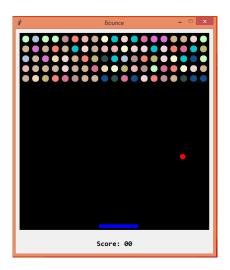
```
1 from tkinter import *
 2 import time
3 import random
5 root = Tk()
6 root.title("Bounce")
7 root.geometry("500x570")
8 root.resizable(0, 0)
9 root.wm attributes("-topmost", 1)
10 canvas = Canvas(root, width=500, height=500, bd=0, highlightthickness=0, bg="Black")
11 canvas.pack(padx=10, pady=10)
12 score = Label(height=50, width=80, text="Score: 00", font="Consolas 14 bold")
13 score.pack(side="left")
14 root.update()
15
16
17 class Ball:
      def init (self, canvas, color, paddle, bricks, score):
19
          self.bricks = bricks
         self.canvas = canvas
         self.paddle = paddle
22
         self.score = score
         self.bottom hit = False
24
          self.hit = 0
          self.id = canvas.create oval(10, 10, 25, 25, fill=color, width=1)
          self.canvas.move(self.id, 230, 461)
26
27
          start = [4, 3.8, 3.6, 3.4, 3.2, 3, 2.8, 2.6]
```

## Output Screenshot















#### Code Statistics

- Number of Lines of Code :195
- Number of Functions:11
- Number of classes: 3



### REPOSITORY

```
https://gitlab.com/wise_batch1/batch1_bouncing_ball_wise.git
```



#### Let us see the Demo



#### THANK YOU