# Playful AI: Intelligent Board Game Opponents and Advisors

**Team Name: TechGenAI**

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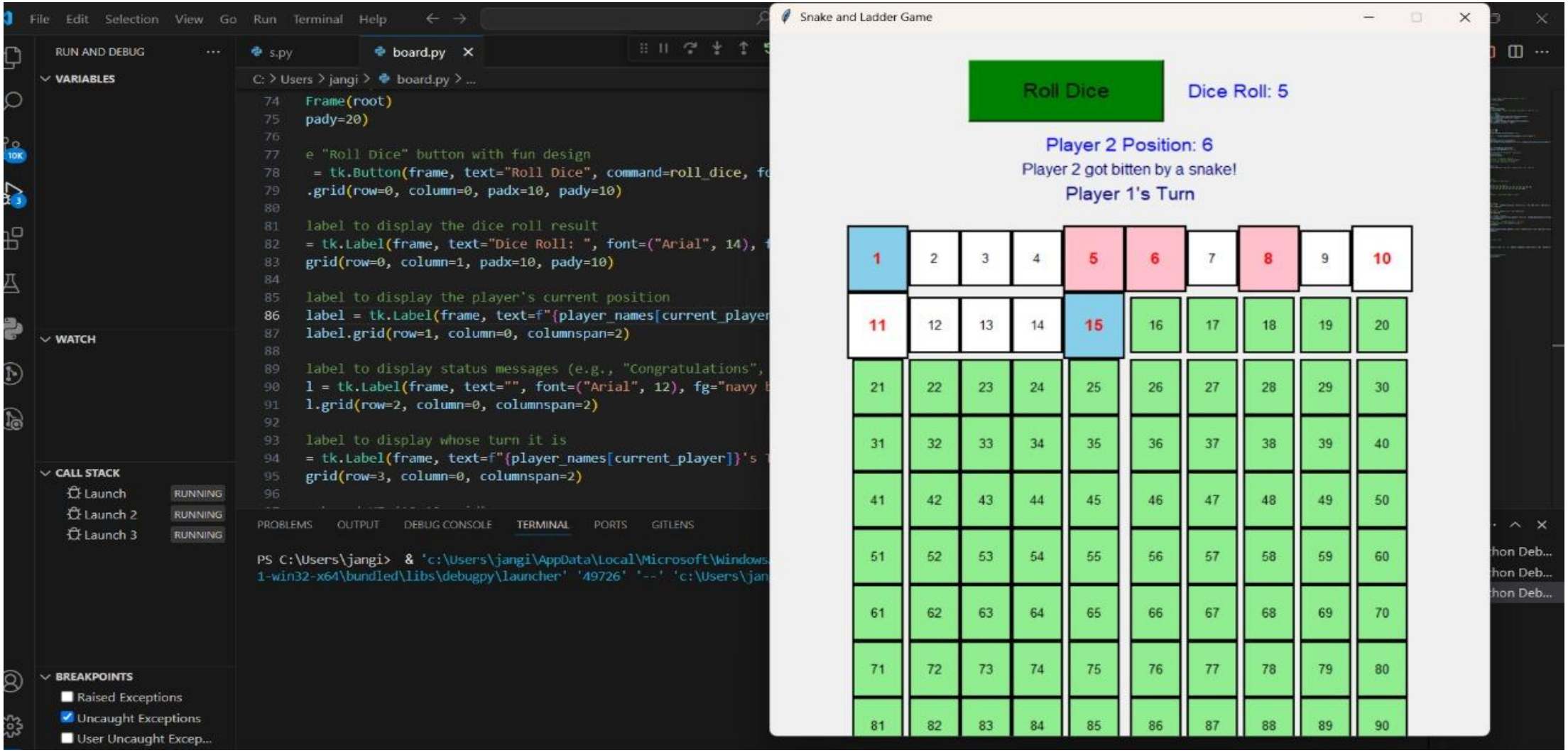
# Introduction and Overview of Snake and Ladder Bot Game Project

**Introduction:**The Snake and Ladder Bot Game is a Python-based digital version of the traditional board game. It uses a graphical user interface (GUI) built with Tkinter, where players roll a virtual dice to advance on the board while encountering snakes and ladders. The game follows the classic rules.

- Technology Used in Snake and Ladder Bot GameThe game is developed using the following technologies:Python 🐍 – The core programming language for implementing the game logic.
- Tkinter 🎨 – Used for building the Graphical User Interface (GUI).Random Module 🎲 – Helps in generating random dice rolls (1-6).
- Object-Oriented Programming (OOP) 🏗️ – Helps in managing players, dice, and board interactions efficiently.Reason for Selecting a Bot-Based Snake and Ladder GameAutomation & AI 🤖 – The game can be enhanced with AI bots to play automatically, making it engaging even in single-player mode.

# Output:


File Edit Selection View Go Run Terminal Help
RUN AND DEBUG
VARIABLES
WATCH
CALL STACK
Launch RUNNING
Launch 2 RUNNING
Launch 3 RUNNING
BREAKPOINTS
Raised Exceptions
Uncaught Exceptions
User Uncaught Excep...
s.py
board.py
C: > Users > jangi > board.py > ...
Frame(root)
pady=20)
e "Roll Dice" button with fun design
= tk.Button(frame, text="Roll Dice", command=roll_dice, fo
.grid(row=0, column=0, padx=10, pady=10)
label to display the dice roll result
= tk.Label(frame, text="Dice Roll: ", font=("Arial", 14),
grid(row=0, column=1, padx=10, pady=10)
label to display the player's current position
label = tk.Label(frame, text=f"{player_names[current_player
label.grid(row=1, column=0, columnspan=2)
label to display status messages (e.g., "Congratulations",
l = tk.Label(frame, text="", font=("Arial", 12), fg="navy
l.grid(row=2, column=0, columnspan=2)
label to display whose turn it is
= tk.Label(frame, text=f"{player_names[current_player]}'s
grid(row=3, column=0, columnspan=2)
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS GITLENS
PS C:\Users\jangi> & 'c:\Users\jangi\AppData\Local\Microsoft\Windows
1-win32-x64\bundled\libs\debugpy\launcher' '49726' '--' 'c:\Users\jan
Snake and Ladder Game
Roll Dice
Dice Roll: 5
Player 2 Position: 6
Player 2 got bitten by a snake!
Player 1's Turn
1 2 3 4 5 6 7 8 9 10
11 12 13 14 15 16 17 18 19 20
21 22 23 24 25 26 27 28 29 30
31 32 33 34 35 36 37 38 39 40
41 42 43 44 45 46 47 48 49 50
51 52 53 54 55 56 57 58 59 60
61 62 63 64 65 66 67 68 69 70
71 72 73 74 75 76 77 78 79 80
81 82 83 84 85 86 87 88 89 90

Summary of Snake and Ladder Bot Game ProjectThe Snake and Ladder Bot Game is a Python-based digital version of the classic board game. It features a graphical user interface (GUI) built using Tkinter, allowing players to roll a virtual dice and navigate a 10x10 board while encountering snakes and ladders. 🎯

Key Features:

✅ Graphical Board: A visually interactive board for player movement.

✅ Automated Dice Rolling: Simulated dice rolls using Python's random module.

✅ Snakes & Ladders Logic: Players move up ladders and down snakes automatically.

# Thank-you

Smart Internz