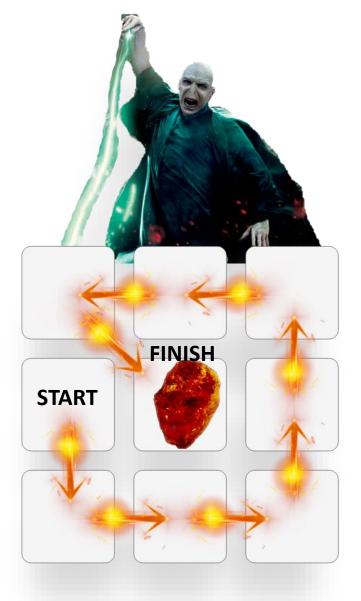


Group Project (Abas and Diana)

## **Board Game**





### Introduction

- **Dice:** Minimum value 1, Max value 3
- Safespot: Starting place is the only safe place where both players can co-exist
- Outside of the Safespot either player can kill the other if they land in their position.
- When either player kills their opponent:
  - Opponent goes back to the Safespot
- When a player is at position:
  - **6**: dice value is 3 that move will be skipped and given to opponent
  - 7: dice value is 2,3 that move will be skipped and given to opponent

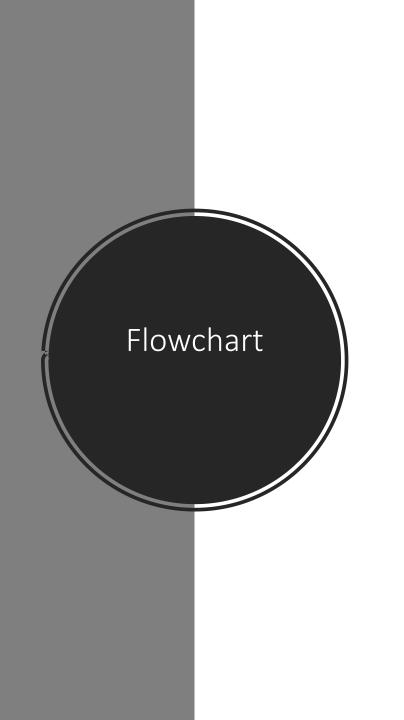
# Team description

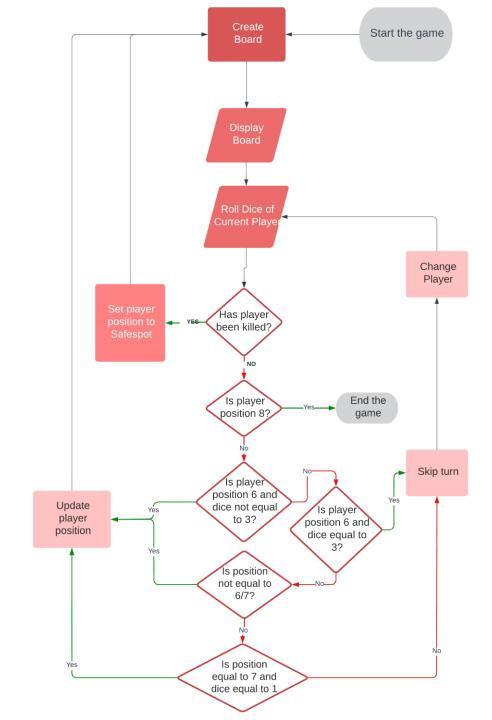
#### Abas Abdi

Worked on the game logic and the kill/skip features as well as code output, code snippet, team description, and conclusion.

#### Diana Percatkina

Worked on the board setup and the player functions as well as the Flow chart, Pseudocode, Introduction, documentation design, and conclusion.





## Pseudocode

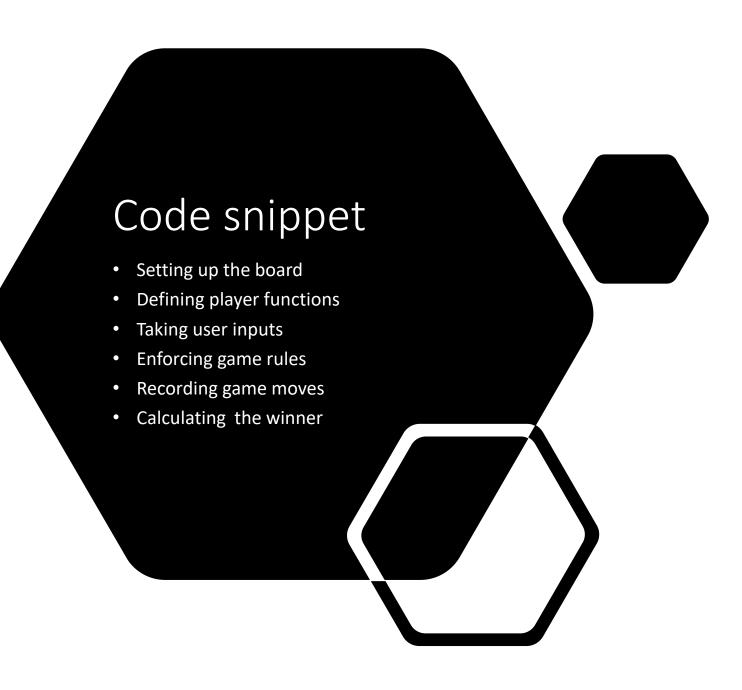
- Generate a board with players on starting position = 0
- While players have not reached the finish position = 8:
  - For both Players , a random dice number is generated from 1 to 3
  - Player1 goes first by generated number
  - Update player position by adding the dice value
  - IF Player 1 or Player 2 position IS NOT equal to 8:
    - IF position is occupied by other player:
      - Player who rolled new position kills current Occupant
    - IF position is free:
      - Player moves to a new position
      - Next move going to other Player
  - IF Player 1 or Player 2 position IS equal to 8:
    - Finish the GAME
    - Winner Output

```
action2 = ""
action2 = input("Player 2: Hit enter to SPIN\n")
dice2 = random.randint(1, 3)
print("YOU ROLLED A", dice2, "\n")
if pos2 != 8:
    pos2, kill1, moves2 = player2(name2,dice2, pos1, pos2, kill1, kill2, kill2 = False
else:
    break
print("\nThe Game"); print(moves1, name1); print(moves2, name2)
if board[8] == name2[0]:
    return print(f"\nWinner: Player 2 {name2}!!")
elif board[8] == name1[0]:
    return print(f"\nWinner: Player 1 {name1}!!")
```

```
pos1 = 0; board[pos1] = name1[0];moves1.append(0)
if pos1 == 8:
    return pos
elif (pos1 == 6 and dice != 3) or (pos1!= 6 and pos1 != 7):
    pos1 += dice; board[pos1] = name1[0];moves1.append(pos1)
elif (pos1 == 7 and dice == 1):
    pos1 += dice; board[pos1] = name1[0]; moves1.append(pos1)
else:
    print(f"\nEXPELLIARMUS!! {name1} skipped a turn!\n")
    return pos1, kill2, moves1
if pos1 == pos2:
    kill2 = True
```

```
board=list(range(9))
# Board setup

def draw_board(board):
    print(board[7],'|',board[6],'|',board[5])
    print('____')
    print(board[0],'|',board[8],'|',board[4])
    print('____')
    print(board[1],'|',board[2],'|',board[3])
```



# Output

```
Player 1 enter your name: Abas
Player 2 enter your name: Diana
Player 1: Hit enter to SPIN
YOU ROLLED A 1
Abas
7 | 6 | 5
A | 2 | 3
```

```
Player 2: Hit enter to SPIN
YOU ROLLED A 1
Diana
A | A | D
DIAID
AIDID
The Game
[0, 1, 4, 7, 0, 2, 4, 5, 6, 7, 8] Abas
[0, 2, 3, 4, 7, 0, 2, 4, 5] Diana
Winner: Player 1 Abas!!
```

```
Player 1: Hit enter to SPIN

YOU ROLLED A 2

Abas

AVADA KEDAVRA!! Abas has been killed!

D | 6 | 5

A | 8 | D

A | A | D
```

```
Player 2: Hit enter to SPIN

YOU ROLLED A 3

Diana

EXPELLIARMUS!! Diana skipped a turn!
```

# Conclusion: What our team achieved



Board Game Creation with nice interface



Time management



**Problem solving** 



Building the team relationship outside the office