T1A3

Features

User Input

Weapon Check

Random Password 8 Digit Code

1. User Input

- Input name into game
- Strip() function ensuring not an empty space
- While loop until valid input entered

1. User Input

- Allow user to move through rooms
- While loop until valid input entered
- Elifs to call next function in code.

1. User Input

Different style of coding using a list and looping before going to if statement

2. Weapon Check

- Initialise Weapon set as False
- Function to set Weapon to True
- Place Weapon into init of rooms class to be usable throughout

```
class player():
    def __init__(self, weapon=False):
        # initiates weapon and sets to False
        self.weapon = weapon

def get_weapon(self):
        self.weapon = True  # sets weapon to True when called

class rooms:
    def __init__(self):
        # creates usable instance of player for weapon
        self.player = player()
```

2. Weapon Check

Once weapon picked up changes text due to checking if True

```
def weaponRoom(self):
        print("You see the hilt of a blade lodged into a wall")
            pick_up = input("Do you pick up the weapon? (y/n)\n")
            if pick up.lower() == 'y':
                self player get weapon()
                print("You pick up the weapon and now have a weapon and return to the previous location")
                self.skeletalRoom()
            elif pick up.lower() == 'n':
                print("You decide to leave the hilt and go back to the previous location")
                self.skeletalRoom()
                print ("Invalid input please use 'y' or 'n'")
        print("You see the hole where the blade used to be. Other than that, it's just a dead end wall. You return to the previous room.")
        self.skeletalRoom()
```

2. Weapon Check

Weapon is referenced in monsterRoom affecting the outcome of choices.

```
def monsterRoom(self):
    print("As you enter the room you hear a grunt and eyes staring into your soul. ITS A MONSTER!")
        fight flee = input("Do you 'fight' or 'flee'?\n")
        if fight flee == 'fight' and not self.player.weapon:
           quit()
           print ("You escape the room and return to the previous location")
           self.scaryRoom()
           print ("YOU HAVE ESCAPED")
           print (complete)
           quit()
           print ("You escape the room and return to the previous location")
           self.scaryRoom()
           print ("Please enter a valid input")
```

3. Random Number

Random number generated and printed to CSV file

```
import csv
import random
from art import *
death = text2art("YOU - HAVE - DIED!")
complete = text2art("COMPLETED!")
random number = str(random.randint(10000000, 99999999))
with open('random number.csv', mode='w', newline='') as file:
   writer = csv.writer(file)
   writer.writerow([random_number])
```

3. Random Number

Player interaction to read

```
def puzzleClue(self):
    choice = input('You see a book that looks like it relates to the door on the right. Read it? (y/n)\n')
    if choice == 'y':
    # Read the random number from the CSV file and provide the first digit as a clue
    with open('random_number.csv', mode='r') as file:
        reader = csv.reader(file)
        random_number = next(reader)[0]
        print(f'A series of numbers is written over and over again, the number is: {random_number} you return to the center of the room.')
    self.puzzleRoom()
    else:
        print('You return to the center of the room')
```

3. Random Number

 Player able to input number to escape

 Can leave puzzle to reset attempts

 At 3 attempts player dies and game quits

```
def puzzleEscape(self):
    while guessing:
        print ("As you look closer at the door and you try to fill in a 8 digit code)")
        user input = input ("Enter an 8 digit number\n")
        if len(user input) == 8 and user input.isdigit():
                print('As soon as you enter the numbers doors begin to move and you escape the dungeon!')
                print (complete)
                quit()
                again = input('Sorry, your guess is incorrect. Try again? (y/n)\n')
                if again.lower() == "n":
                    print ('You hear something above you turning as you return to the center of the room')
                    self.puzzleRoom()
                elif again.lower() == "y":
                    print(f"You have {3-attempts} attempts left.")
                    print("Invalid input. Please enter 'y' or 'n'.")
            print("Invalid input. Please enter an 8-digit number")
        print("Invalid input. Please enter 'y' or 'n'.")
   print ("The ceiling suddenly opens up and a spike trap comes hurtling down killing you.")
    print (death)
    auit()
```

Validation

• Validation throughout code

Ensures valid inputs only by the user using while loops and ifs

 Ensures that puzzle input is only 8 digits, containing only numbers using len and is digit()

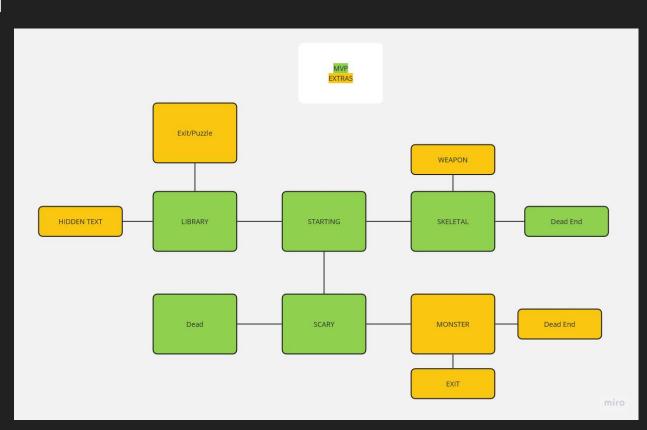
 Use of lower() throughout to ensure that whether input is upper or lower case text still works

Agile plan

Create an MVP

 Green rooms bare minimum functionality

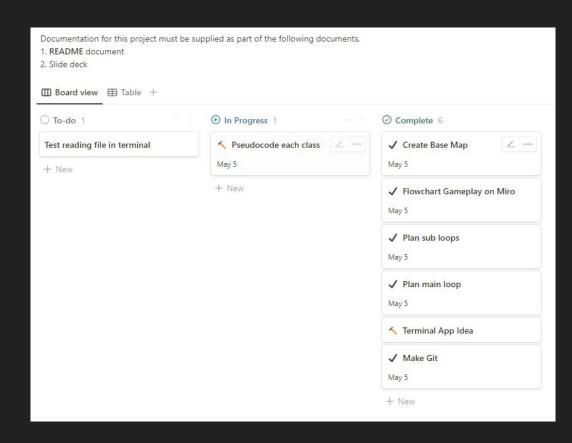
 Yellow rooms to achieve if possible



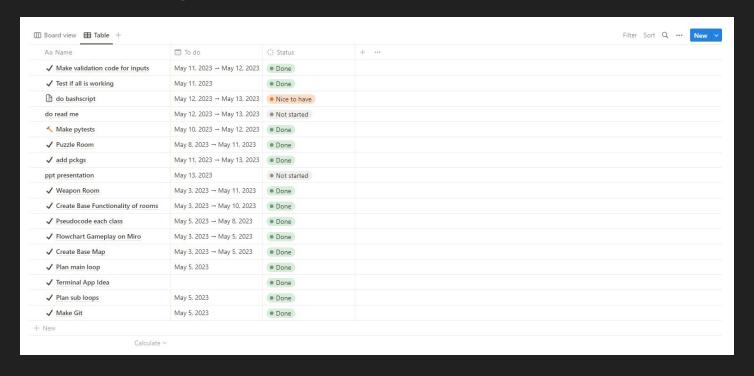
Used Notion

Used to it

 Less functionality than a traditional Kanban board

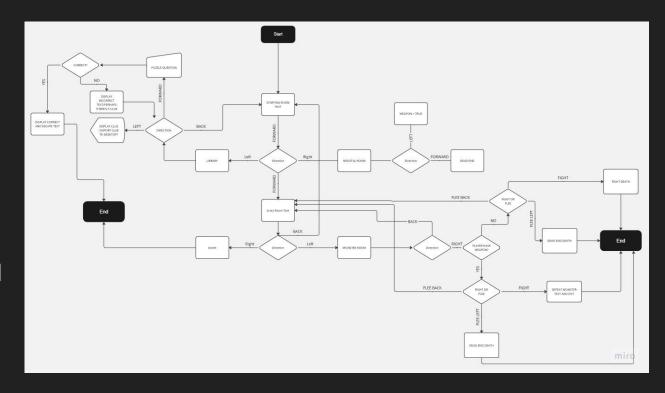


Different formatting options such as table format or calendar format



 Flowchart how game should go if all completed

 Helped to understand logic behind choices and directions



Review of the Build

Most challenging portion: testing and using pytest

With time can make it DRY'er and more modular

Less time planning and more doing