MazeGame step 5.py

```
1.1.1
 1
 2
   Add enemies to the game
 3
 4
 5
   import json
 6
 7
   # Load game data from JSON file
 8
   def load_game_data(filename):
 9
        with open(filename, "r") as file:
10
            return json.load(file)
11
   game data = load_game_data("game_data.json")
12
   rooms = game data["rooms"]
13
   current room = game data["start"]
14
15
   inventory = []
16
   constructed_items = {"Magic Staff": ["Crystal Shard", "Wooden Stick", "Enchanted
17
   enemies = {"Dark Sorcerer": "Magic Staff"} # Enemy that can be defeated with a
18
   specific item
19
20
   def display_room():
        print(f"You appear to be in the {current_room}")
21
        print(rooms[current room].get("Desc", "No description available."))
22
23
24
        if "Item" in rooms[current room]:
25
            print(f"There is a {rooms[current room]['Item']} in the room")
26
        else:
27
            print("The room is empty")
28
29
        if "Enemy" in rooms[current room]:
30
            print(f"A {rooms[current room]['Enemy']} is here! Be careful!")
31
32
        if inventory:
            print(f"You have {len(inventory)} items: {', '.join(inventory)}")
33
34
        else:
35
            print("You have no items!")
36
37
   def handle_movement(direction):
38
        global current room
39
        if direction in rooms[current room]:
40
            current room = rooms[current room][direction]
            print(f"You moved {direction}")
41
42
        else:
43
            print("You can't go that way.")
44
45
   def handle item interaction(action, item):
46
        global current room
```

```
47
        if action == "Get":
48
            if "Item" in rooms[current room] and rooms[current room]["Item"].lower() ==
    item.lower():
49
                if item not in inventory:
50
                    inventory.append(item)
                    del rooms[current room]["Item"]
51
52
                    print(f"{item} retrieved!")
53
                else:
                    print(f"You already have the {item}.")
54
55
            else:
56
                print(f"Can't find {item}.")
57
        elif action == "Drop":
58
            if item in inventory:
59
                inventory.remove(item)
                rooms[current room]["Item"] = item
60
61
                print(f"You dropped {item}.")
62
            else:
                print(f"You don't have {item}.")
63
        elif action == "Craft":
64
65
            for crafted item, components in constructed items.items():
                if item == crafted item and all(comp in inventory for comp in components):
66
67
                    for comp in components:
68
                        inventory.remove(comp)
69
                    inventory.append(crafted item)
                    print(f"You have successfully crafted {crafted item}!")
70
71
72
            print(f"You don't have the necessary components to craft {item}.")
73
74
   def handle_combat():
75
        global current room
76
        if "Enemy" in rooms[current room]:
77
            enemy = rooms[current room]["Enemy"]
            if enemy in enemies and enemies[enemy] in inventory:
78
                print(f"You defeated the {enemy} with your {enemies[enemy]}!")
79
                del rooms[current room]["Enemy"]
80
81
            else:
                print(f"The {enemy} attacks! You need a {enemies.get(enemy, 'proper
82
   weapon')} to defeat it!")
83
84
   def main():
85
        global current room
86
        while True:
87
            display room()
            if "Enemy" in rooms[current room]:
88
89
                handle combat()
90
            user input = input("Enter command\n").strip().split(" ")
91
92
93
            if not user input:
94
                continue
```

```
3/1/25, 2:47 PM
```

```
95
96
             action = user input[0].title()
 97
             argument = " ".join(user input[1:]).title() if len(user input) > 1 else ""
98
99
             if action == "Exit":
100
                 print("Goodbye!")
101
                 break
            elif action == "Go" and argument in ["North", "South", "East", "West", "Up",
102
    "Down", "Out", "In"]:
                 handle_movement(argument)
103
            elif action in ["Get", "Drop", "Craft"] and argument:
104
                 handle item interaction(action, argument)
105
             elif action == "Passcode" and argument == "8915" and current room == "Library":
106
                 print("Lock unlocked!")
107
108
            else:
109
                 print("Invalid command.")
110
    if name == " main ":
111
112
        main()
113
```