

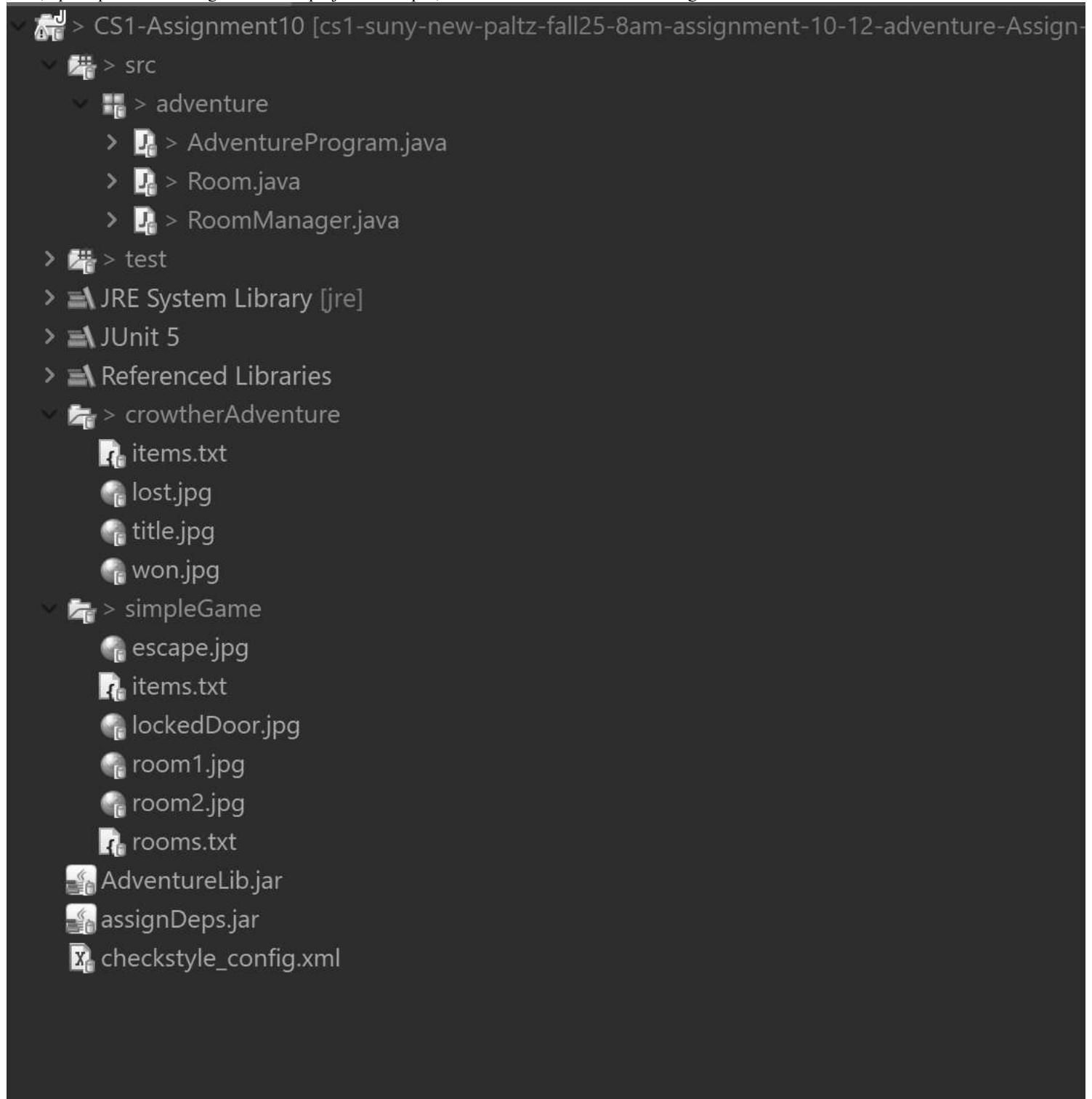
CS1 Adventure Game — Extra Credit assignment Walkthrough

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1. Correct Project Structure (This Is Critical)

First, open up the CS1-Assignment10-12 project in Eclipse, the one that we have been working on for awhile. You shuld see this:



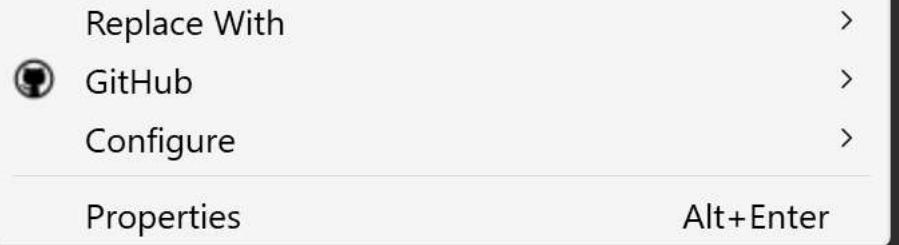
2. Create a new folder called uniqueGame at the same level as src/

File Edit Source Refactor Navigate Search Project Run Window Help

The screenshot shows the Eclipse IDE interface with the Package Explorer view selected. A context menu is open over a project node named "CS1-Assignment10 [cs1-supv-new-paltz-fall25-8am-assignment-10-12-adventure-Assignment10]" in the tree. The menu includes options for creating new projects, navigating, and performing various operations like copy, paste, and delete. On the right side of the menu, there is a vertical list of icons representing different project types and file types supported by Eclipse.

- New >
- Go Into
- Open in New Window
- Open Type Hierarchy F4
- Show In Alt+Shift+W >
- Show in Local Terminal >
- Copy Ctrl+C
- Copy Qualified Name
- Paste Ctrl+V
- Delete Delete
- Remove from Context Ctrl+Alt+Shift+↓
- Build Path >
- Source Alt+Shift+S >
- Refactor Alt+Shift+T >
- Import...
- Export...
- Source >
- Refresh F5
- Close Project
- Assign Working Sets...
- Coverage As >
- Run As >
- Debug As >
- Restore from Local History...
- Checkstyle >
- Team >
- Compare With >

- Java Project
- Maven Project
- Project...
- Package
- Class
- Interface
- Enum
- Record
- Annotation
- Source Folder
- Java Working Set
- Folder
- File
- Untitled Text
- Task
- JUnit Test Case
- Other...



Instructions: Right-click on the project name CS1-Assignment10-12 → New → Folder → enter uniqueGame → Finish

 New Folder

Folder

Create a new folder resource.

Enter or select the parent folder:

CS1-Assignment10

>  CS1-Assignment10 [cs1-suny-new-paltz-fall25-8am-assignment-10-12-adventure-Assi...]

>  bin

>  crowtherAdventure

>  maddieAdventure

>  simpleGame

>  src

>  test

Folder name:

[Advanced >>](#)

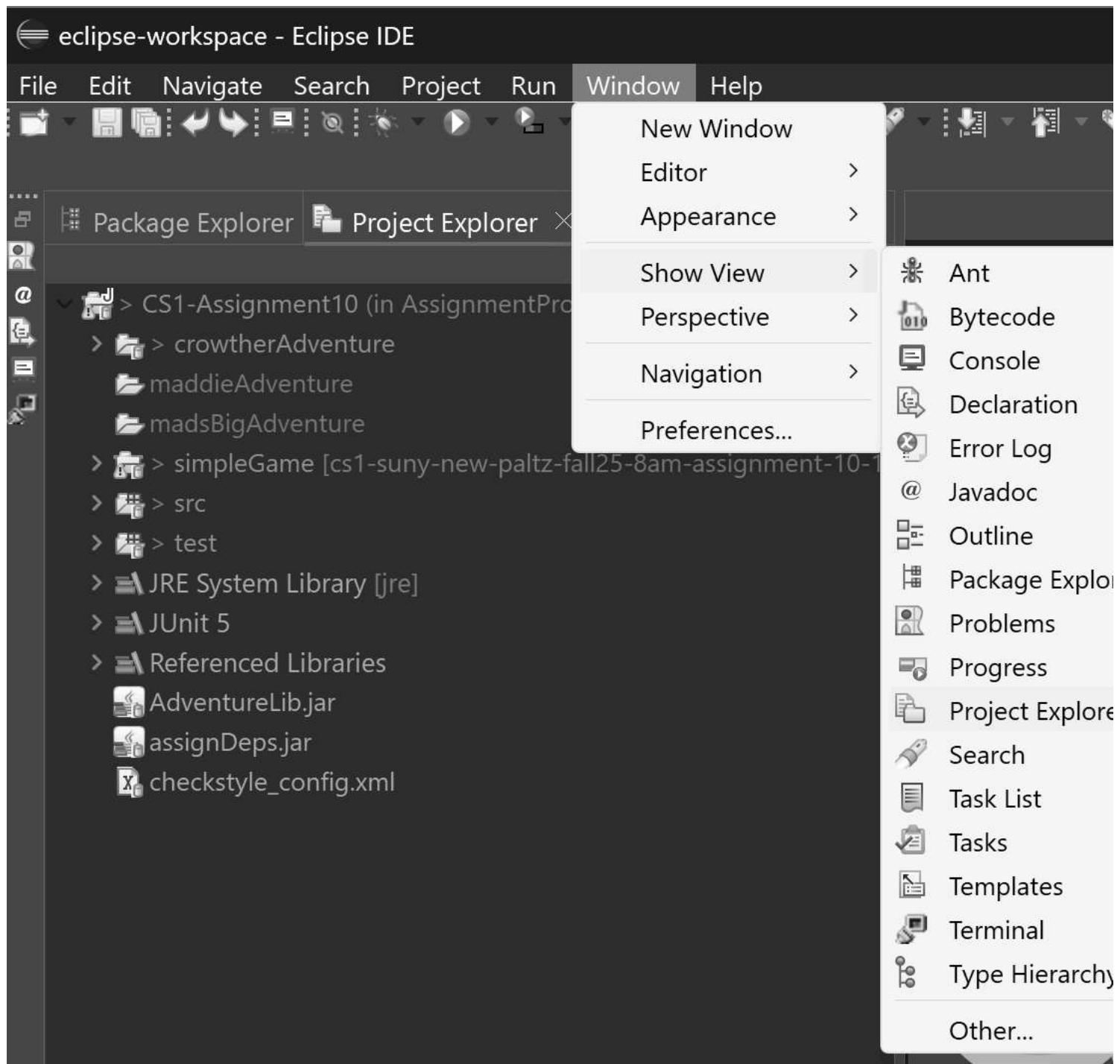
  

2a. If you had difficulty with file creation:

The fix

Switch to **Project Explorer**:

Window → Show View → Project Explorer



Now Eclipse shows:

- Your game folder, repeat step 2 if not showing up.

To proceed: Your project's file structure **must** look like this:

```
CS1-Assignment10/
├── src/
│   └── adventure/
│       ├── AdventureProgram.java
│       ├── Room.java
│       └── RoomManager.java (IMPORTANT: there is a new version of this file , see below)
└── uniqueGame/    <-- your game folder
    ├── rooms.txt <-- we will fill it with unique content, see format below
    ├── items.txt <-- we will fill it with unique content, see format below
    └── title.jpg <-- we will copy/paste these .jpg files into this folder for the raw game- when you are
```

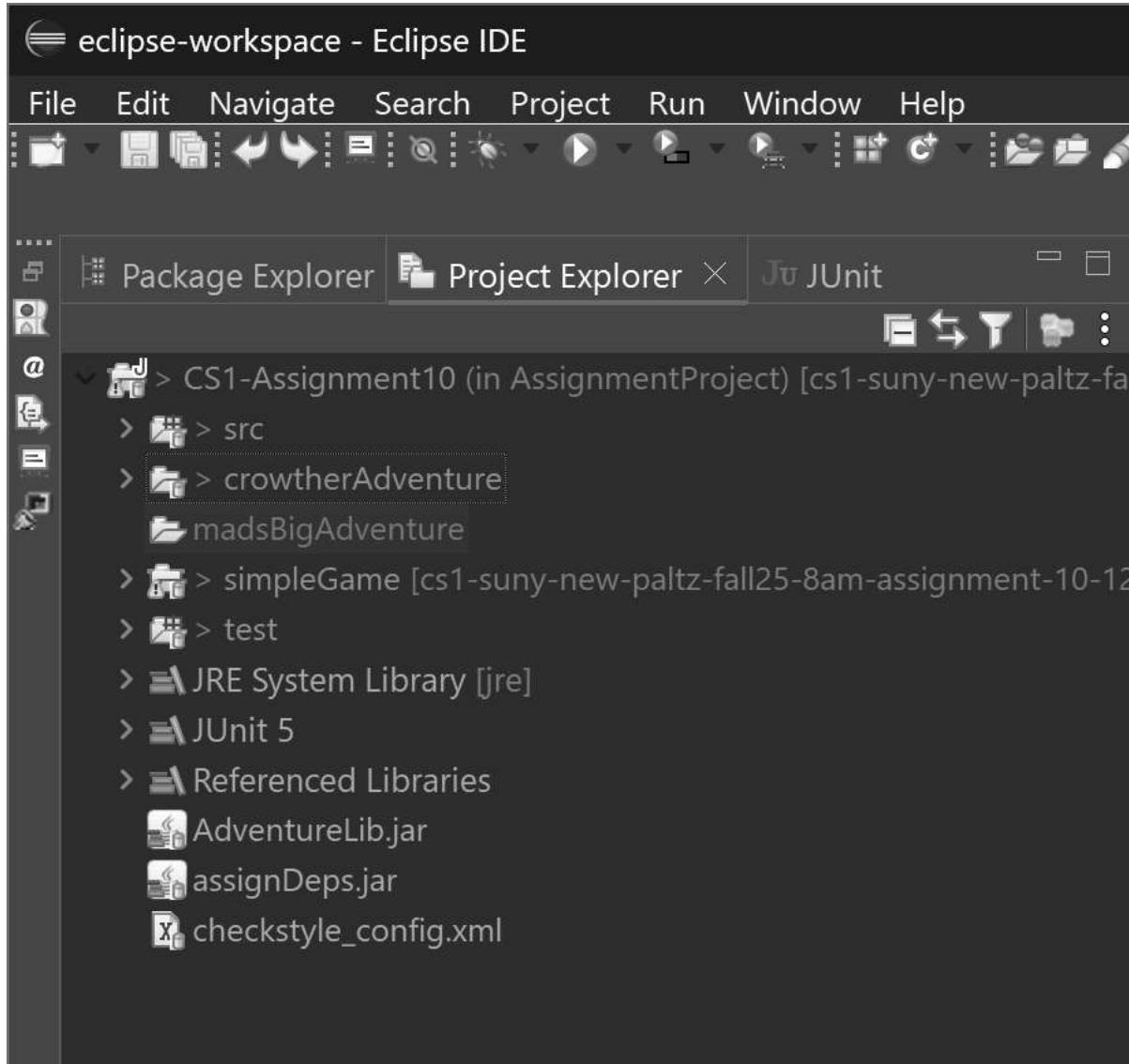
making your own, you will put them here

```
└── room2.jpg  
└── won.jpg  
└── lost.jpg
```

```
─ crowtherAdventure/      (prior example)  
─ simpleGame/            (prior example)  
─ AdventureLib.jar  
─ assignDeps.jar
```

Key rule

- **src/ → Java code only, with updated RoomManager.java**
- **uniqueGame/ → where you put your .jpg and .txt files only**
- Your game folder **must NOT be inside src, only at the same level**. Here, my sample game folder is called `madsBigAdventure/`, but you can name it whatever you like.



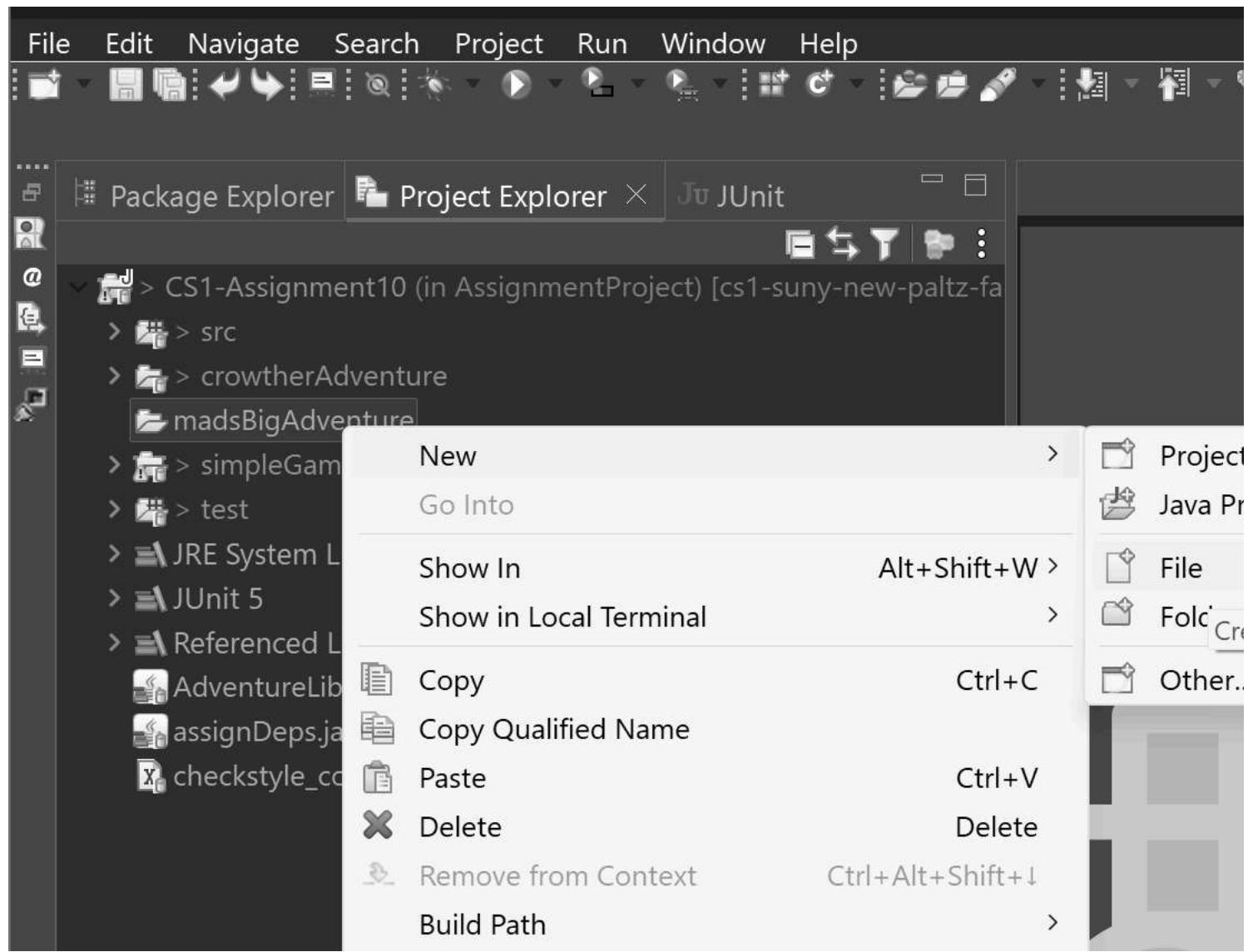
To get the game runnable, first you must copy and paste the .jpg files into your `uniqueGame/` folder. You can use the ones located already in `crowtherAdventure/`. After the game is runnable, I want you to add your own images, to this exact location (keep the same filenames, or update `rooms.txt` accordingly).

3. Creating Files (Raw Game)

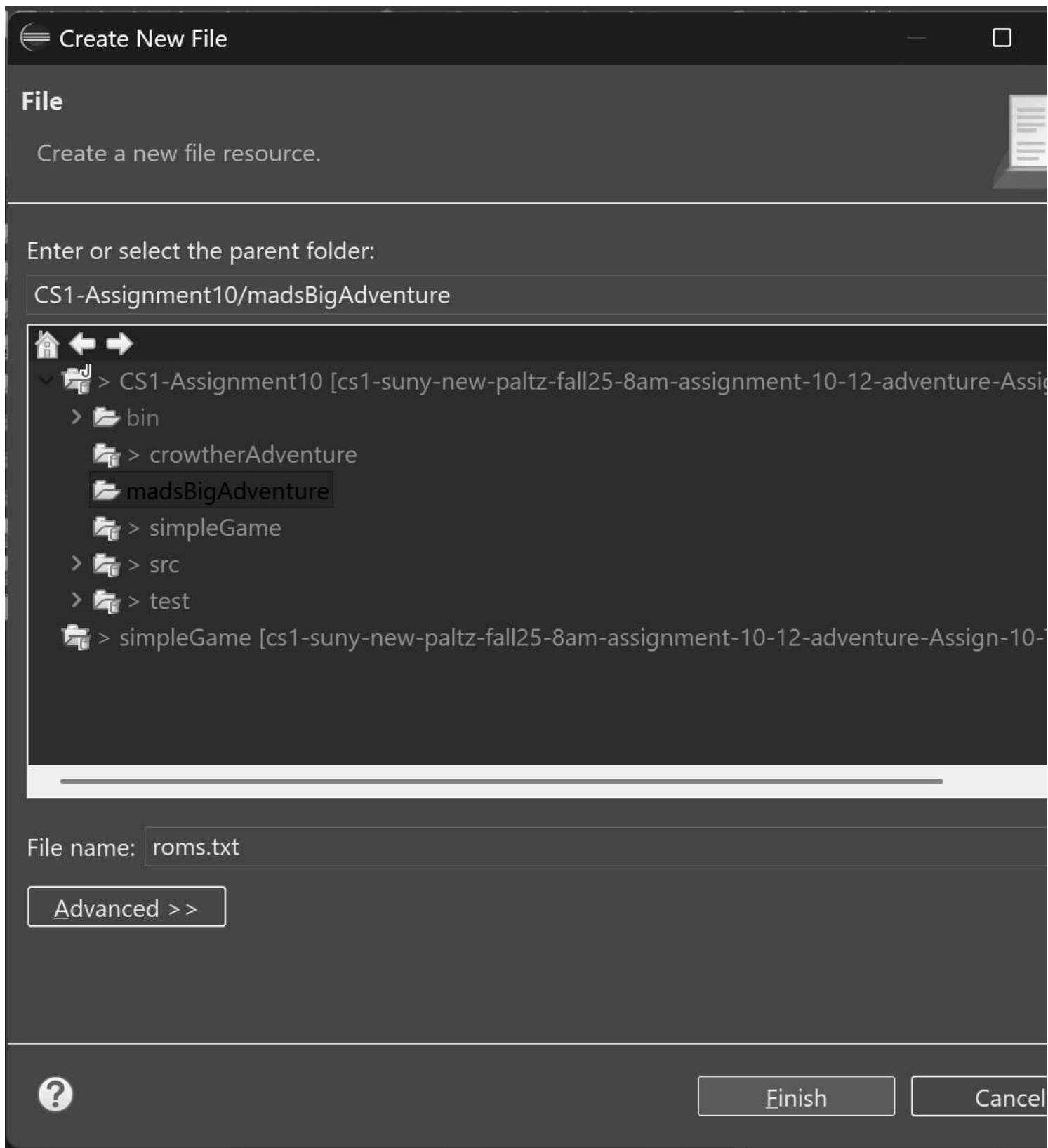
Right-click `uniqueGame` → New → File

Inside, create:

- rooms.txt
- items.txt



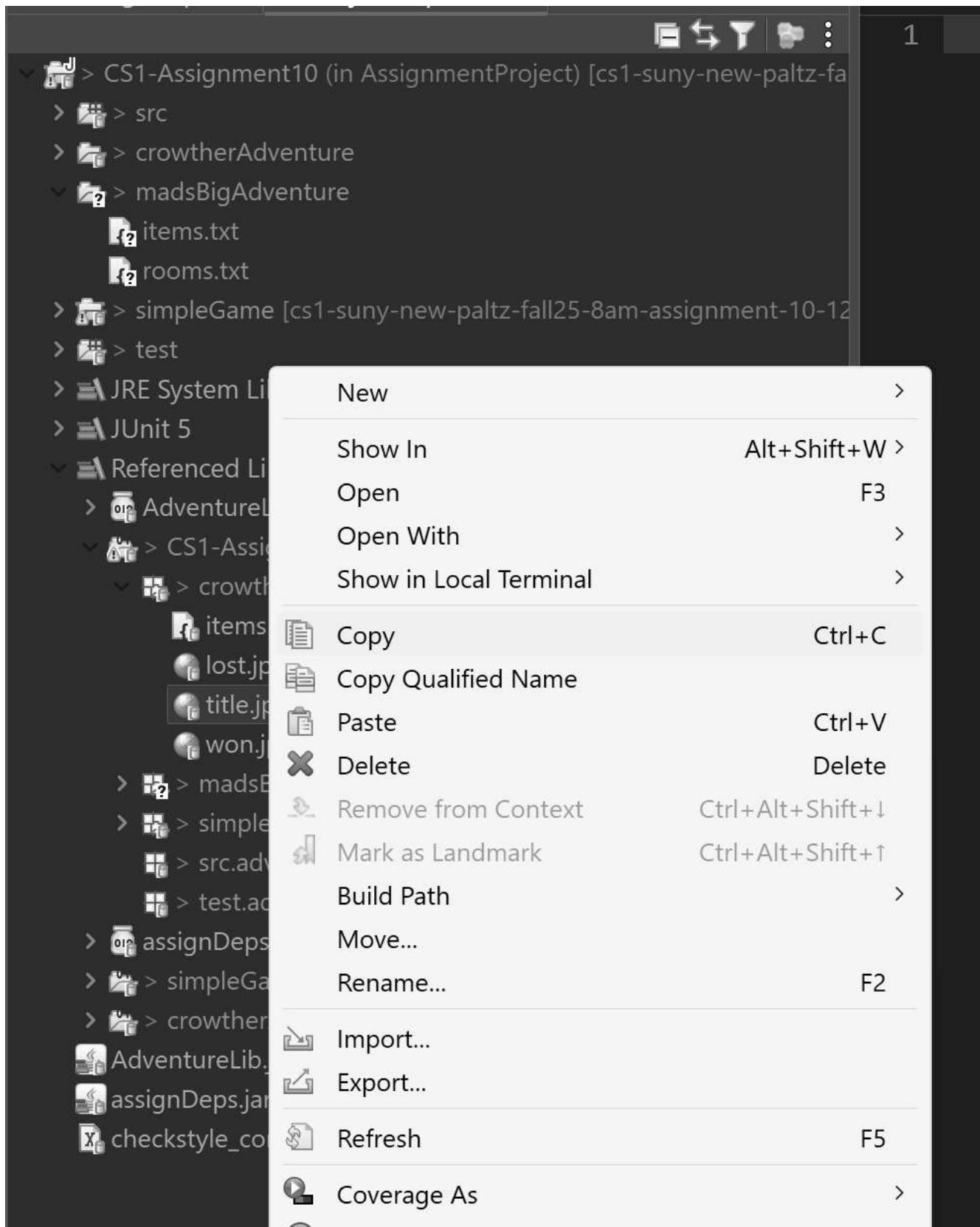
Add a new file



call it rooms.txt. Do the *same exact process* again to create items.txt. Now, once you did that, go inside the crowtherAdventure folder to get the

starter images copied (title, win, lost, etc.)





- New >
- Show In Alt+Shift+W >
- Open F3
- Open With >
- Show in Local Terminal >
- Copy Ctrl+C
- Copy Qualified Name
- Paste Ctrl+V
- Delete Delete
- Remove from Context Ctrl+Alt+Shift+↓
- Mark as Landmark Ctrl+Alt+Shift+↑
- Build Path >
- Move...
- Rename... F2
- Import...
- Export...
- Refresh F5
- Coverage As >

copy it

The screenshot shows the Eclipse IDE interface with the Project Explorer tab selected. A context menu is open over the 'madsBigAdventure' folder in the 'AssignmentProject' workspace. The menu includes options like New, Go Into, Show In, Copy, Paste, Delete, Remove from Context, Build Path, Move..., Rename..., Import..., Export..., and Refresh. Shortcuts for many of these actions are listed to the right of the menu items.

Project Explorer JUnit

CS1-Assignment10 (in AssignmentProject) [cs1-suny-new-paltz-fa]

New >

Go Into

Show In Alt+Shift+W >

Show in Local Terminal >

Copy Ctrl+C

Copy Qualified Name

Paste Ctrl+V

Delete Delete

Remove from Context Ctrl+Alt+Shift+↓ >

Build Path >

Move...

Rename... F2

Import...

Export...

Refresh F5

paste inside your game

CS1-Assignment10 (in AssignmentProject)

src

crowtherAdventure

madsBigAdventure

- items.txt
- lost.jpg
- room2.jpg
- rooms.txt
- title.jpg
- won.jpg

now your structure should look like this, with these exact files to start with.

4. Now, inside uniqueGame, we will do rooms.txt:

Correct rooms.txt format.

Use this to get the program to run, then modify it later to create your own adventure. DO NOT mess with the spacing!

```
1  
1  
title.jpg  
You are in a small lobby. A hallway leads NORTH. A locked door is EAST.  
KEYCARD  
NORTH/2  
EAST/3/KEYCARD  
DOWN/4  
  
2  
room2.jpg  
You are in the hallway. The lobby is SOUTH.  
  
SOUTH/1  
  
3  
won.jpg  
You swipe the keycard, the door clicks open, and you escape. You win!  
  
4  
lost.jpg  
You fall into a padded room labeled "BONK".  
  
FORCED/1
```

Rules for your creativity:

- **Room ID** on first line. This is a number
- **Image filename** on next line (the .jpg)
- **Description** on next line. NOTE: must be 1 single line
- **Item ID required to enter** (or blank) on next line. This is a word that *must* be already in the items.txt file (e.g. KEYCARD)
- **Exits / actions** on next line One action per line, using this format: ACTION_ID/NEXT_ROOM_ID[/ITEM_REQUIRED]

Where: ACTION_ID → what the player types (e.g. NORTH, EAST) NEXT_ROOM_ID → the room number this action leads to ITEM_REQUIRED (optional) → item needed to use this action (e.g. EAST/3/KEYCARD)

Inside uniqueGame:

4. Correct items.txt

Use this to get the program to run, then modify it later to create your own adventure. Copy it exactly as shown to start. DO NOT mess with the spacing!

```
KEYCARD  
a scratched blue keycard that says "LAB"
```

```
SUSHI  
a freshly made plate of sushi rolls
```

```
FISHFOOD  
a tiny packet of fish food
```

Rules for your creativity:

- Item ID on one line
 - Description on the **next** line
 - 1 Blank line between items
-

5. Update the old RoomManager.java

You must replace your old RoomManager.java file inside src/ with this one:

```
package adventure;

import common.CS1Reader;
import java.util.ArrayList;
import java.util.HashMap;
import java.util.List;

/**
 * Manages the collection of rooms in the game and handles data loading.
 */
public class RoomManager {
    private HashMap<String, Room> rooms;
    private HashMap<String, GameItem> items;
    private String startingRoomId;

    /**
     * Creates a new RoomManager based on the data in gameFolder.
     *
     * @param gameFolder the folder containing game data files
     */
    public RoomManager(String gameFolder) {
        rooms = new HashMap<String, Room>();
        items = new HashMap<String, GameItem>();

        String itemsFilePath = gameFolder + "/items.txt";
        String roomsFilePath = gameFolder + "/rooms.txt";

        // Load items first since rooms depend on items.
        loadItems(itemsFilePath);

        // Load rooms
        loadRooms(roomsFilePath);
    }

    /**
     * Returns the Room the game starts in.
     *
     * @return the starting room
     */
    public Room getStartingRoom() {
        return rooms.get(startingRoomId);
    }

    /**
     * Returns the Room corresponding to the given id, or null if no such room exists.
     *
     * @param id the room id to search for
     * @return the Room or null
     */
    public Room getRoom(String id) {
        return rooms.get(id);
    }

    /**
     * Loads items from the items file.
     *
     * @param filename the path to the items file
     */
    private void loadItems(String filename) {
        CS1Reader reader = new CS1Reader(filename);

        String itemLine = reader.readLine();
```

```

        while (itemLine != null) {
            if (itemLine.length() > 0) {
                String itemId = itemLine.trim();
                String description = reader.readLine();

                GameItem item = new GameItem(itemId, description);
                items.put(itemId, item);
            }
            itemLine = reader.readLine();
        }

        // DEBUG: confirm items loaded
        System.out.println("Loaded items: " + items.keySet());
    }

    /**
     * Loads rooms from the rooms file.
     *
     * @param filename the path to the rooms file
     */
    private void loadRooms(String filename) {
        CS1Reader reader = new CS1Reader(filename);

        // First line is the starting room ID
        startingRoomId = reader.readLine();

        // Read each room (line holds the roomId)
        String line = reader.readLine();
        while (line != null) {
            if (line.length() > 0) {
                // Room ID
                String roomId = line.trim();

                // Image file
                String imageFile = reader.readLine();

                // Description
                String description = reader.readLine();

                // Items in room (comma-separated or empty line)
                String itemLine = reader.readLine();
                if (itemLine == null) {
                    itemLine = "";
                }
                itemLine = itemLine.trim();

                // DEBUG (optional): show what item line was read
                System.out.println("Room " + roomId + " itemLine=[" + itemLine + "]");

                List<GameItem> roomItems = new ArrayList<GameItem>();
                if (itemLine.length() > 0) {
                    String[] itemIds = itemLine.split(",");
                    for (int i = 0; i < itemIds.length; i++) {
                        String itemId = itemIds[i].trim();
                        GameItem item = items.get(itemId);
                        if (item != null) {
                            roomItems.add(item);
                        } else {
                            // DEBUG (optional): if this prints, the ID didn't match items.txt
                            System.out.println("WARNING: Room " + roomId + " references unknown item [" +
itemId + "]");
                        }
                    }
                }
            }
        }

        // Actions
    }
}

```

```

        List<GameAction> actions = new ArrayList<GameAction>();
        line = reader.readLine();

        while (line != null && line.trim().length() > 0) {
            line = line.trim();

            // Safety: action lines must contain at least "ID/NEXTROOM"
            String[] parts = line.split("/");
            if (parts.length < 2) {
                System.out.println("BAD ACTION LINE (missing '/'): [" + line + "]");
                line = reader.readLine();
                continue;
            }

            String actionPerformedId = parts[0];
            String nextRoom = parts[1];

            ArrayList<String> requirements = new ArrayList<String>();
            for (int i = 2; i < parts.length; i++) {
                requirements.add(parts[i].trim());
            }

            actions.add(new GameAction(actionPerformedId, nextRoom, requirements));
            line = reader.readLine();
        }

        // Create and store room
        Room room = new Room(imageFile, description, roomItems, actions);
        rooms.put(roomId, room);

        // CRITICAL: move to the next roomId after the blank separator line
        line = reader.readLine();

    } else {
        // Empty line, read next
        line = reader.readLine();
    }
}

// DEBUG: confirm rooms loaded
System.out.println("Loaded rooms: " + rooms.keySet());
System.out.println("Starting room: " + startingRoomId);
}
}

```

6. Raw Game complete: How to Run it

1. Right-click AdventureProgram.java
2. Run As → Java Application
3. When prompted:

Enter the folder to load for a game of Adventure:
uniqueGame

7. How to Play the Raw Game (Commands) (My example, madsBigAdventure -- please adapt to your own)

Valid commands:

NORTH
SOUTH
EAST

DOWN
GET KEYCARD
LIST
QUIT

Winning path

GET KEYCARD
EAST

If an item says “not here”

- You’re in the wrong room
- Use movement commands first

8. Play with it a bunch to get the hang of it.

I recommend you test the raw game first, then you modify `rooms.txt` and `items.txt` to create your own unique adventure. Find images online to use as room images, and place them in the `uniqueGame/` folder. Make sure to update the filenames in `rooms.txt` accordingly! (e.g room2 might become forest.jpg if you want a forest scene).

Note: Read through the assignment pdf, and remember that you'll need:

- at least 3 rooms,
- 1 item,
- 1 transition that requires an item, and
- 1 transition that doesn't require an item