Textual RPG (Role-Playing Game)

Arrow Functions

1. Simple Arrow Function Conversion

- **Objective**: Convert a traditional function into an arrow function.
- **Exercise**: Given a function <code>getPlayerName</code> that returns the name of a player from your RPG game, convert it into an arrow function.
- Initial Code:

```
function getPlayerName(player) {
  return player.name;
}
```

2. Control Flow in Arrow Functions

- Objective: Understand how to use control flow statements (like if-else) in arrow functions.
- Exercise: Given a function getPlayerHealth that returns a string stating whether the player's health is "High", "Medium", or "Low" based on a specific health score.
 Convert this function into an arrow function.
- Initial Code:

```
function getPlayerHealth(health) {
  if (health > 70) {
    return "High";
  } else if (health > 40) {
    return "Medium";
  } else {
    return "Low";
  }
}
```

3. Arrow Functions with Multiple Operations

- Objective: Learn how to perform multiple operations in arrow functions before returning a value.
- **Exercise**: Given a function <code>getTotalInventoryValue</code> that takes an array of items (each item has a <code>value</code> property), calculates the total value of all items, and returns the result. Convert this function into an arrow function.
- Initial Code:

```
function getTotalInventoryValue(items) {
  let totalValue = 0;
  for (let i = 0; i < items.length; i++) {
    totalValue += items[i].value;
  }
  return 'Total inventory value is ' + totalValue;
}</pre>
```

4. Arrow Functions as Callbacks

- Objective: Understand how arrow functions can be used as callbacks.
- Exercise: Your RPG game sorts items in the inventory by their value before displaying. Currently, it uses a traditional function for sorting. Convert this sorting function into an arrow function.
- Initial Code:

```
let sortedItems = items.sort(function(a, b) {
   return b.value - a.value;
});
```

5. Implicit Return with Arrow Functions

- **Objective**: Understand the concept of implicit return in arrow functions.
- **Exercise**: There's a function getItemNames which returns an array of all item names. Convert this function into a single-line arrow function using the implicit return feature.
- Initial Code:

```
function getItemNames(items) {
  return items.map(function(item) {
    return item.name;
  });
}
```