

# Day 2 - Ownership Exercise

## Exercise 1: Ownership Move

[</> Plain Text](#)

```
1 fn main() {
2     let city = String::from("Mumbai");
3     let location = city;
4
5     println!("City: {}", city); // ? Fix the error if
    any and explain why it happens
6 }
7
8
9
```

## Exercise 2: Function Takes Ownership

[</> Plain Text](#)

```
1 fn display_message(msg: String) {
2     println!("Message: {}", msg);
3 }
4
5 fn main() {
6     let msg = String::from("Rust is fun!");
7     display_message(msg);
8
9     println!("Again: {}", msg); // ? Fix the error
    and explain why
10 }
11
12
13
```

## Exercise 3: Function Returns Ownership



[</> Plain Text](#)

```
1 fn create_name() -> String {
```

```
2     String::from("Tejas")
3 }
4
5 fn main() {
6     let name;
7     // Complete this to receive ownership from
    function
8
9
10    println!("Name: {}", name);
11 }
12
13
14
```

#### Exercise 4: Copy vs Move

[</> Plain Text](#)

```
1 fn main() {
2     let x = 10;
3     let y = x;
4
5     println!("x: {}, y: {}", x, y); //  This works
6
7     let s1 = String::from("Ownership");
8     let s2 = s1;
9
10    println!("s1: {}, s2: {}", s1, s2); //  Fix this
    and explain difference
11 }
12
13
14
```