

Scenario 1: All slots are free



- Serial Monitor Output:

```
1 d1 = 150.00 cm
2 d2 = 180.00 cm
3 d3 = 200.00 cm
```

Verify Open In Editor  

- LCD Display Output:

```
1 3 Slots Free
2 Slot 1 2 3 Free
```

Verify Open In Editor  

Scenario 2: Two slots are free

- Serial Monitor Output:

Verify Open In Editor  

```
1 d1 = 150.00 cm
2 d2 = 180.00 cm
3 d3 = 50.00 cm
```

- LCD Display Output:

Verify Open In Editor  

```
1 2 Slots Free
2 Slot 1 & 2 Free
```

Scenario 3: One slot is free

- Serial Monitor Output:

```
1 d1 = 150.00 cm
2 d2 = 50.00 cm
3 d3 = 50.00 cm
```

Verify Open In Editor  

- LCD Display Output:

```
1 1 Slot Free
2 Slot 1 is Free
```

Verify Open In Editor  

Scenario 4: No slots are free

- Serial Monitor Output:

```
1 d1 = 50.00 cm
2 d2 = 50.00 cm
3 d3 = 50.00 cm
```

- LCD Display Output:

```
1 No Slot Free
2 Parking Full
```