```
$ create_parking_lot 6
```

```
iyash@Yash MINGW64 /d/Programming/AutomatedParkingLot
$ javac Main.java

iyash@Yash MINGW64 /d/Programming/AutomatedParkingLot
$ java Main

1. Create Parking Lot
2. Park a Car
3. Leave Parking Lot
4. Get Registration Numbers for Color
5. Get Slot Numbers for Color
6. Get Slot Number for Registration Number
7. Status
8. Exit
Enter your choice: 1
Enter parking lot capacity: 6
Created a parking lot with 6 slots
```

```
$ park KA-01-HH-1234 White
```

```
$ park KA-01-HH-9999 White
```

```
$ park KA-01-BB-0001 Black
```

```
$ park KA-01-HH-7777 Red
```

```
$ park KA-01-HH-2701 Blue
```

```
$ park KA-01-HH-3141 Black
```

```
1. Create Parking Lot
2. Park a Car
3. Leave Parking Lot
4. Get Registration Numbers for Color
5. Get Slot Numbers for Color
6. Get Slot Number for Registration Number
7. Status
8. Exit
Enter your choice: 2
Enter car registration number: KA-01-HH-1234
Enter car color: White
Allocated slot number: 1

1. Create Parking Lot
2. Park a Car
3. Leave Parking Lot
4. Get Registration Numbers for Color
5. Get Slot Numbers for Color
6. Get Slot Number for Registration Number
7. Status
8. Exit
Enter your choice: 2
Enter car registration number: KA-01-HH-9999
Enter car color: White
Allocated slot number: 2

1. Create Parking Lot
2. Park a Car
3. Leave Parking Lot
4. Get Registration Numbers for Color
5. Get Slot Numbers for Color
6. Get Slot Number for Registration Number
7. Status
8. Exit
Enter your choice: 2
Enter car registration number: KA-01-BB-0001
Enter car color: Black
Allocated slot number: 3
```

```
1. Create Parking Lot
2. Park a Car
3. Leave Parking Lot
4. Get Registration Numbers for Color
5. Get Slot Numbers for Color
6. Get Slot Number for Registration Number
7. Status
8. Exit
Enter your choice: 2
Enter car registration number: KA-01-HH-7777
Enter car color: Red
Allocated slot number: 4

1. Create Parking Lot
2. Park a Car
3. Leave Parking Lot
4. Get Registration Numbers for Color
5. Get Slot Numbers for Color
6. Get Slot Number for Registration Number
7. Status
8. Exit
Enter your choice: 2
Enter car registration number: KA-01-HH-2701
Enter car color: Blue
Allocated slot number: 5

1. Create Parking Lot
2. Park a Car
3. Leave Parking Lot
4. Get Registration Numbers for Color
5. Get Slot Numbers for Color
6. Get Slot Number for Registration Number
7. Status
8. Exit
Enter your choice: 2
Enter car registration number: KA-01-HH-3141
Enter car color: Black
Allocated slot number: 6
```

$ leave 4

```
1. Create Parking Lot
2. Park a Car
3. Leave Parking Lot
4. Get Registration Numbers for Color
5. Get Slot Numbers for Color
6. Get Slot Number for Registration Number
7. Status
8. Exit
Enter your choice: 3
Enter slot number to leave: 4
Slot number 4 is free
```

$ status

```
1. Create Parking Lot
2. Park a Car
3. Leave Parking Lot
4. Get Registration Numbers for Color
5. Get Slot Numbers for Color
6. Get Slot Number for Registration Number
7. Status
8. Exit
Enter your choice: 7
Slot No.        Registration No        Colour
1                      KA-01-HH-1234          White
2                      KA-01-HH-9999          White
3                      KA-01-BB-0001          Black
5                      KA-01-HH-2701          Blue
6                      KA-01-HH-3141          Black
```

$ park KA-01-P-333 White

```
                    KA-01-HH-3141              Black
1. Create Parking Lot
2. Park a Car
3. Leave Parking Lot
4. Get Registration Numbers for Color
5. Get Slot Numbers for Color
6. Get Slot Number for Registration Number
7. Status
8. Exit
Enter your choice: 2
Enter car registration number: KA-01-P-333
Enter car color: White
Allocated slot number: 4
```

$ park DL-12-AA-9999 White

```
1. Create Parking Lot
2. Park a Car
3. Leave Parking Lot
4. Get Registration Numbers for Color
5. Get Slot Numbers for Color
6. Get Slot Number for Registration Number
7. Status
8. Exit
Enter your choice: 2
Enter car registration number: DL-12-AA-9999
Enter car color: White
Sorry, parking lot is full
```

$ registration_numbers_for_cars_with_colour White

```
1. Create Parking Lot
2. Park a Car
3. Leave Parking Lot
4. Get Registration Numbers for Color
5. Get Slot Numbers for Color
6. Get Slot Number for Registration Number
7. Status
8. Exit
Enter your choice: 4
Enter car color: White
Registration numbers for color White: [KA-01-HH-1234, KA-01-HH-9999, KA-01-P-333]
```

$ slot_numbers_for_cars_with_colour White

```
1. Create Parking Lot
2. Park a Car
3. Leave Parking Lot
4. Get Registration Numbers for Color
5. Get Slot Numbers for Color
6. Get Slot Number for Registration Number
7. Status
8. Exit
Enter your choice: 5
Enter car color: White
Slot numbers for color White: [1, 2, 4]
```

$ slot_number_for_registration_number KA-01-HH-3141

```
1. Create Parking Lot
2. Park a Car
3. Leave Parking Lot
4. Get Registration Numbers for Color
5. Get Slot Numbers for Color
6. Get Slot Number for Registration Number
7. Status
8. Exit
Enter your choice: 6
Enter car registration number: KA-01-HH-3141
Slot number for registration number KA-01-HH-3141: 6
```

$ slot_number_for_registration_number MH-04-AY-1111

```
1. Create Parking Lot
2. Park a Car
3. Leave Parking Lot
4. Get Registration Numbers for Color
5. Get Slot Numbers for Color
6. Get Slot Number for Registration Number
7. Status
8. Exit
Enter your choice: 6
Enter car registration number: MH-04-AY-1111
Car not found
```

$ exit

```
1. Create Parking Lot
2. Park a Car
3. Leave Parking Lot
4. Get Registration Numbers for Color
5. Get Slot Numbers for Color
6. Get Slot Number for Registration Number
7. Status
8. Exit
Enter your choice: 8
```