

## Start program:

```
Options
Enter the number of staff slots
5
Enter the number of visitor slots
6
Welcome to the best parking system!
Here is a list of available parking slots and their status
ID: S01 Slot type: Staff Status: Vacant
ID: S02 Slot type: Staff Status: Vacant
ID: S03 Slot type: Staff Status: Vacant
ID: S04 Slot type: Staff Status: Vacant
ID: S05 Slot type: Staff Status: Vacant
ID: V01 Slot type: Visitor Status: Vacant
ID: V02 Slot type: Visitor Status: Vacant
ID: V03 Slot type: Visitor Status: Vacant
ID: V04 Slot type: Visitor Status: Vacant
ID: V05 Slot type: Visitor Status: Vacant
ID: V06 Slot type: Visitor Status: Vacant

Here are a list of menu items to choose from
1. Add a parking slot
2. Delete a parking slot by ID
3. List all parking slots
4. Delete all unoccupied slots
5. Park a car in a slot
6. Find a car by registration
7. Remove a car by registration
8. Exit
```

### Check uniqueness of a slot & add a slot:

Here are a list of menu items to choose from

1. Add a parking slot
2. Delete a parking slot by ID
3. List all parking slots
4. Delete all unoccupied slots
5. Park a car in a slot
6. Find a car by registration
7. Remove a car by registration
8. Exit

1

Please enter a slot identifier, valid format is "S01"

S01

Please enter 1 for staff and 0 for visitor

1

Failed to add parking slot, parking slot ID already in use

Here are a list of menu items to choose from

1. Add a parking slot
2. Delete a parking slot by ID
3. List all parking slots
4. Delete all unoccupied slots
5. Park a car in a slot
6. Find a car by registration
7. Remove a car by registration
8. Exit

1

Please enter a slot identifier, valid format is "S01"

F01

Please enter 1 for staff and 0 for visitor

1

The parking slot F01 was successfully added to the car park

**Note: if the user enters a wrong format slot number, e.g. S111, the program will report:**

**Incorrect format, please enter the correct slot format e.g. S01**

### List all slots:

Here are a list of menu items to choose from

1. Add a parking slot
2. Delete a parking slot by ID
3. List all parking slots
4. Delete all unoccupied slots
5. Park a car in a slot
6. Find a car by registration
7. Remove a car by registration
8. Exit

3

ID: S01 Slot type: Staff Status: Vacant  
ID: S02 Slot type: Staff Status: Vacant  
ID: S03 Slot type: Staff Status: Vacant  
ID: S04 Slot type: Staff Status: Vacant  
ID: S05 Slot type: Staff Status: Vacant  
ID: V01 Slot type: Visitor Status: Vacant  
ID: V02 Slot type: Visitor Status: Vacant  
ID: V03 Slot type: Visitor Status: Vacant  
ID: V04 Slot type: Visitor Status: Vacant  
ID: V05 Slot type: Visitor Status: Vacant  
ID: V06 Slot type: Visitor Status: Vacant  
ID: F01 Slot type: Staff Status: Vacant

## Park a car:

1. Add a parking slot
2. Delete a parking slot by ID
3. List all parking slots
4. Delete all unoccupied slots
5. Park a car in a slot
6. Find a car by registration
7. Remove a car by registration
8. Exit

5

Please enter the owners name

David Lee

Please enter a slot identifier, valid format is "S01"

S03

Please the registration of the car to be parked, valid format is T1234

Q1234

Please 1 for staff and 0 for visitor

1

Car Q1234 parked in S03 at time 2024/08/13 21:45:33

**Note: The format of slot and car registration should be checked, should report for incorrect format. If a slot is occupied, it cannot be parked and you should report it. Also, you should check if a staff car is parked in a slot for staff.**