ALGORITHM :

Algorithm about parking management system:

Step 1: Start

Step 2: Initialize total parking slots
(N) and set parked vehicle
count to 0.

Step 3: Display the menu options:

1. Park Vehicle
2. Remove Vehicle
3. View Parking Status
4. Count Available Slots
5. Parking Charges (if required)
6. Exit

Step 4: Read user's choice

Step 5: If choice is 1: (Park Vehicle)

a. If parking is not full:
Enter vehicle number
Add vehicle details to parking list
Increase vehicle count
Display “Vehicle Parked Successfully”

b. Else:
Display “Parking Full, Vehicle Added to Waiting List”

Step 6: If choice is 2: (Remove
Vehicle)
a. Enter vehicle number
b. Search vehicle in parking list
c. If found:

Remove vehicle
Decrease vehicle count
Calculate parking charges
If waiting list has vehicles, move first waiting vehicle into slot

d. Else:
Display “Vehicle Not Found”

Step 7: If choice is 3: (View Parking Status)

Display all parked vehicles and slot numbers

Step 8: If choice is 4: (Count Available Slots)

Display Available Slots = N - current vehicle count

Step 9: If choice is 6:
Exit the program

Step 10: Repeat steps 3–10 until exit selected

Step 11: Stop