SMART PARKING

PROGRAM:

```
def _init_(self, total_spaces):
    self.total spaces = total spaces
    self.available spaces = total spaces
  def park car(self):
    if self.available_spaces > 0:
       self.available_spaces -= 1
       print("Car parked. Available spaces:", self.available spaces)
else:
       print("Parking lot is full. No space available.")
  def leave_car(self):
    if self.available spaces < self.total spaces:
      self.available spaces += 1
       print("Car left. Available spaces:", self.available_spaces)
    else:
       print("Parking lot is already empty.")
def main():
  total spaces = 10 # Change this to the desired number of parking spaces
  parking lot = SmartParking(total spaces)
while True:
    print("\nMenu:")
    print("1. Park a car")
```

```
print("2. Remove a car")
    print("3. Exit")
    choice = input("Enter your choice: ")
    if choice == "1":
      parking_lot.park_car()
    elif choice == "2":
      parking_lot.leave_car()
    elif choice == "3":
      break
    else:
      print("Invalid choice. Please select 1, 2, or 3.")
if _name_ == "_main_":
  main()
OUTPUT:
```

Menu:

1. Park a car

2. Remove a car

3. Exit

Enter your choice: 1

Car parked. Available spaces: 9

Menu:

- 1. Park a car
- 2. Remove a car
- 3. Exit

Enter your choice: 1

Car parked. Available spaces: 8

Menu:

- 1. Park a car
- 2. Remove a car
- 3. Exit

Enter your choice: 2

Car left. Available spaces: 9

Menu:

- 1. Park a car
- 2. Remove a car
- 3. Exit

Enter your choice: 2

Car left. Available spaces: 10

Parking lot is already empty.