CAR DEALERSHIP

1) Connected with database

```
with sqlite3.connect("database.db") as db:
    cursor = db.cursor()
```

2) Enter variable type

```
cursor.execute("""CREATE TABLE articles(
    id INTEGER PRIMARY KEY AUTOINCREMENT,
    brand VARCHAR,
    model VARCHAR,
    years INTEGER,
    price BIGINT
    )""")
```

3) Enter variables

```
values = [
            ("BMW", "M5", 2022, 100000),
            ("MERCEDES", "S-CLASS", 2021, 200000),
            ("TOYOTA", "CAMRY", 2020, 20000),
            ("NISSAN", "MURANO", 2016, 10000),
            ("HONDA", "CIVIC", 2008, 8000),
            ("TOYOTA", "COROLLA", 2019, 13000),
            ("MERCEDES", "E-CLASS", 2017, 19000),
            ("BMW", "M3", 2000, 7000),
        ]
```

4) Insert to database

```
cursor.executemany("INSERT INTO articles(brand,model,years,price)
VALUES(?,?,?,?)", values)
```

5) Print from database

```
cursor.execute("SELECT * FROM articles ")
print(cursor.fetchall())
```

6) Change cars price

```
print("Change car's price")
num = int(input("Enter cars id number:"))
pri = int(input("Enter your new price:"))

cursor.execute("UPDATE articles SET price = ? WHERE id = ?", [pri, num])
```

7) Print from database

```
cursor.execute("SELECT * FROM articles ")
print(cursor.fetchall())
```

8) Delete car

```
print("Delete car")
num1 = int(input("Enter cars id number:"))
```

9) Print from database

```
cursor.execute("DELETE from articles WHERE id = ?",[num1])
cursor.execute("SELECT * FROM articles")
print(cursor.fetchall())
```

10) Search car

```
sear = input("Search a car:")
cursor.execute("SELECT * FROM articles WHERE brand  = ? OR model = ?",
[sear, sear])
print(cursor.fetchall())
```

11) Filter by year or price

```
print("1)filter by a year")
print("2)filter by a price")
filt = int(input("Choose how to filter:"))
if filt == 1:
    filter1 = int(input("from:"))
    filter2 = int(input("before:"))
    cursor.execute("SELECT * FROM articles WHERE years >= ? AND years <=
?", [filter1, filter2])
    # cursor.execute("SELECT * FROM articles", [])
    print(cursor.fetchall())
elif filt == 2:
    filter1 = int(input("from:"))
    filter2 = int(input("before:"))
    cursor.execute("SELECT * FROM articles WHERE price >= ? AND price <=
?", [filter1, filter2])
    print(cursor.fetchall())
```

12) Sort by brand , year or price

```
print("1) SORT by brand")
print("2) SORT by year")
print("3) SORT by price")

sort = int(input("Choose how to SORT:"))

if sort == 1:
    cursor.execute("SELECT * FROM articles ORDER BY brand")
    print(cursor.fetchall())
elif sort == 2:
    cursor.execute("SELECT * FROM articles ORDER BY years")
    print(cursor.fetchall())
elif sort == 3:
    cursor.execute("SELECT * FROM articles ORDER BY price")
    print(cursor.fetchall())
```