

## Practical - 05

**Aim:** Redis Data Manipulation

- a) Use Redis commands to manipulate and modify data stored in different data structures.
- b) Retrieve specific data using Redis query operations.

### Description:

Redis, a high-performance key-value store, boasts in-memory data storage for swift read and write operations. Versatile in handling various data structures like strings, lists, sets, and hashes, Redis excels in atomic operations, ensuring data integrity.

Used widely for caching, real-time analytics, and more, Redis supports persistence to disk and offers publish/subscribe messaging for real-time communication. With master-slave replication and partitioning capabilities, Redis scales seamlessly, making it ideal for diverse workloads.

Redis data manipulation involves interacting with the various data structures provided by Redis. Here are the main topics for Redis data manipulation

### Execution:

#### Lists update

```
127.0.0.1:6379> LPUSH b_name nokia
```

```
(integer) 1
```

```
127.0.0.1:6379> LPUSH b_name vivo
```

```
(integer) 2
```

```
127.0.0.1:6379> LRANGE b_name 0 3
```

```
1) "vivo"
```

```
2) "nokia"
```

```
127.0.0.1:6379> LPUSH b_name reliance
```

```
(integer) 3
```

```
127.0.0.1:6379> LRANGE b_name 0 3
```

```
1) "reliance"
```

```
2) "vivo"
```

```
3) "nokia"
```

```
127.0.0.1:6379> lset b_name 2 reliance
```

OK

**127.0.0.1:6379> LRANGE b\_name 0 3**

1) "reliance"

2) "vivo"

3) "reliance"

127.0.0.1:6379>