Redis

Part I (10 marks)

Task #1 (1 mark)

Add your name to the database keyed to your student ID.

HINTS: http://redis.io/commands#string

Task #2 (1 mark)

- Add a list of 5 databases we're going to cover in this course using "416" as the key, in the order they are covered in class.
- Trim MongoDB from the list using the LTRIM command then remove your least favorite

1

Task 1

```
127.0.0.1:6379> SET 1211 mohamed OK
```

```
muhamed@DESKTOP-DT81K5 × + v
.27.0.0.1:6379> get 1211
'mohamed"
.27.0.0.1:6379> |
```

127.0.0.1:6379> LPUSH 416 "PostgreSQL" "Redis" "SQLite" "Oracle" "MySQL" (integer) 5

```
127.0.0.1:6379> LRANGE 416 0 -1
1) "MySQL"
2) "Oracle"
3) "SQLite"
4) "Redis"
5) "PostgreSQL"
127.0.0.1:6379> |
```

Task 2

```
127.0.0.1:6379> LREM 416 0 SQLite
(integer) 1
127.0.0.1:6379> LRANGE 416 -1
(error) ERR wrong number of arguments for 'lrange' command
127.0.0.1:6379> LRANGE 416 0 -1
1) "MySQL"
2) "Oracle"
3) "Redis"
4) "PostgreSQL"
127.0.0.1:6379>
```

db from the list (You should now have a list of size 3)

HINTS: http://redis.io/commands#list

Task #3 (1 mark)

Make a new set called C that contains the common element in these 2 sets.

A: "a, b, c" B: "c, d, e, f"

HINTS: http://redis.io/commands#set

Task #4 (1 mark)

- Create a sorted set of size 5 of your favorite databases then promote the third element in your list to becoming the top of your list.
- Retrieve your list along with the scores.

HINTS: http://redis.io/commands#sorted_set

Task #5 (1 mark)

- Create a hash table that stores a user profile with
 - ID
 - First Name
 - Last Name
 - birthday
 - email
- Delete the email then return all values.

HINTS: http://redis.io/commands#hash

Task #6 (1 mark)

- Subscribe to the "COSC416A" channel
- Publish the message "Hello World" in the COSC416A channel (Use 2 different Terminals or get a friend to send the message)

HINTS: http://redis.io/commands#pubsub

Task 3

```
127.0.0.1:6379> SADD A "a" "b" "c"
(integer) 3
127.0.0.1:6379> SADD B "c" "d" "e" "f"
(integer) 4
127.0.0.1:6379> SINTER C A B
(empty array)
127.0.0.1:6379> SINTERSTORE C A B
(integer) 1
127.0.0.1:6379>
```

Task 4

Task 5

```
muhamed@DESKTOP-DT81K5Q:/mnt/c/Users/Lenovo$ redis-cli
127.0.0.1:6379> PUBLISH COSC416A "Hello World"
(integer) 1
127.0.0.1:6379> |
```

```
muhamed@DESKTOP-DT81K5 × muhamed@DESKTOP-DT81K5 × + v

127.0.0.1:6379> SUBSCRIBE COSC416A

Reading messages... (press Ctrl-C to quit)

1) "subscribe"

2) "COSC416A"

3) (integer) 1

1) "message"

2) "COSC416A"

3) "Hello World"
```

Task 7

```
muhamed@DESKTOP-DT81K5 × + v

127.0.0.1:6379> EXPIRE 12345 10

(integer) 0

127.0.0.1:6379> EXPIRE 1211 10

(integer) 1

127.0.0.1:6379> PERSIST 1211

(integer) 0

127.0.0.1:6379> |
```

Task 8

```
muhamed@DESKTOP-DT81K5 × + v

127.0.0.1:6379> PEXPIRE 1211 10

(integer) 1

127.0.0.1:6379> PERSIST 1211

(integer) 0

127.0.0.1:6379> PTTL 1211

(integer) -2

127.0.0.1:6379> |
```