

Assignment Task 1 – Redis

```
1  import redis
2  import time
3
4  r = redis.Redis(host='localhost', port=6379, charset="utf-8", decode_responses=True)
5
6  # string
7  print("String")
8
9  r.set('index','1')
10 print('get',r.get('index'))
11 print('len',r.strlen('index'))
12
13 r.incrby('index',23)
14 print('get',r.get('index'))
15
16 r.set('timer','30',4)
17 time.sleep(2)
18 print('time to live',r.ttl('timer'))
19
20 r.delete('index')
21
22 # Lists
23 print("\nList")
24
25 a=['a','b','c','d','e']
26
27 r.lpush('myList',*a)
28 print('len',r.llen('myList'))
29 print('lrange',r.lrange('myList',0,-1))
30
31 r.lpop('myList')
32 print('lrange',r.lrange('myList',0,-1))
33 print('lindex',r.lindex('myList',2))
34
35 r.linsert('myList','before','c','z')
36 print('lrange',r.lrange('myList',0,-1))
37
38 #Hash Map
39 print("\nHash Map")
40
41 data={"name":"Amith","rollno":"10","marks":"50"}
42 r.hmset('myMap', data)
43 print('getall',r.hgetall('myMap'))
44 print('len',r.hlen('myMap'))
45
46 print('exists',r.exists('myMap','rollno'))
47
48 r.hdel('myMap','rollno')
49 print('vals',r.hvals('myMap'))
50
51 # Set
52 print("\nSets")
53
54 data1={'a','b','c'}
55 r.sadd('mySet1',*data1)
56 print('smembers set1',r.smembers('mySet1'))
57
58 data2={'c','d','e'}
59 r.sadd('mySet2',*data2)
60
```

```
61 print('sunion',r.sunion('mySet1','mySet2'))
62 print('sinter',r.sinter('mySet1','mySet2'))
63 print('sdiff',r.sdiff('mySet1','mySet2'))
64
65 r.srem('mySet2','c','d')
66 print('smembers set2',r.smembers('mySet2'))
67
68 r.smove('mySet1','mySet2','c')
69 print('smembers set2',r.smembers('mySet2'))
70
71 # Sorted Set
72 print('\nSorted Set')
73
74 data={'a':10,'b':8,'c':6,'d':4}
75
76 r.zadd('mySset',data)
77 print('zrange',r.zrange('mySset',0,-1))
78 print('zcard',r.zcard('mySset'))
79
80 print('zcount',r.zcount('mySset',1,7))
81 print('zrank',r.zrank('mySset','c'))
82 print('zrevrank',r.zrevrank('mySset','c'))
83 print('zrangebyscore',r.zrangebyscore('mySset',3,9))
84
```

Output

```
PS D:\Training\Assignment\redis> python redisConnect.py
String
get 1
len 1
get 24
time to live 2

List
len 10
lrange ['e', 'd', 'c', 'b', 'a', 'd', 'z', 'c', 'b', 'a']
lrange ['d', 'c', 'b', 'a', 'd', 'z', 'c', 'b', 'a']
lindex b
lrange ['d', 'z', 'c', 'b', 'a', 'd', 'z', 'c', 'b', 'a']

Hash Map
redisConnect.py:42: DeprecationWarning: Redis.hmset() is deprecated. Use Redis.hset() instead.
    r.hmset('myMap', data)
getall {'name': 'Amith', 'marks': '50', 'rollno': '10'}
len 3
exists True
vals ['Amith', '50']

Sets
smembers set1 {'b', 'a', 'c'}
sunion {'e', 'b', 'd', 'a', 'c'}
sinter {'c'}
sdiff {'b', 'a'}
smembers set2 {'e'}
smembers set2 {'e', 'c'}
```

```
Sorted Set
zrange ['d', 'c', 'b', 'a']
zcard 4
zcount 2
zrank 1
zrevrank 2
zrangebyscore ['d', 'c', 'b']
```