

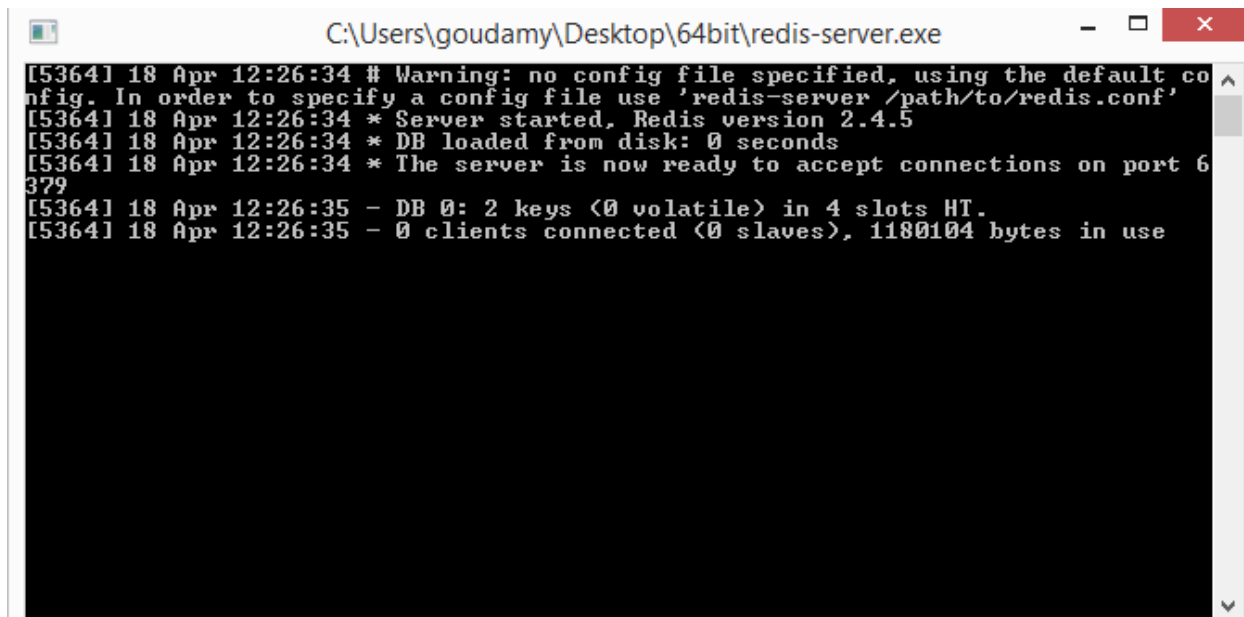
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RedisCache and Registration Page Integration

Steps Followed:

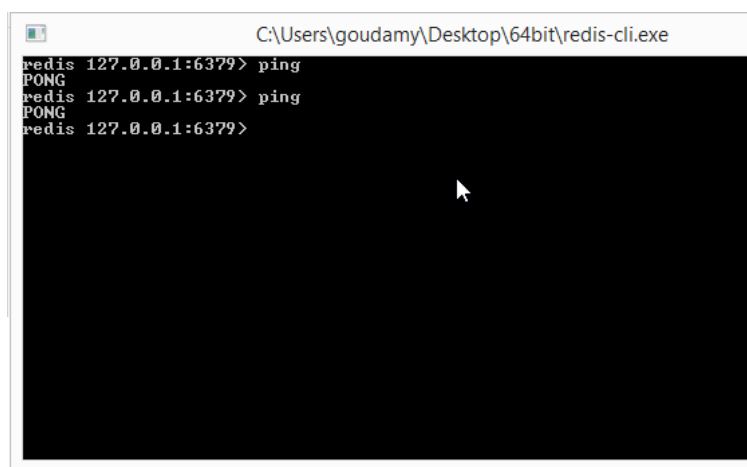
- Downloaded Redis for windows from: <https://github.com/dmajkic/redis/downloads>
- Downloaded Jedis jar file and placed it in the library folder of the eclipse project.
- Started Redis server by sing redis-server.exe as below

A screenshot of a Windows command prompt window titled "C:\Users\goudamy\Desktop\64bit\redis-server.exe". The window shows the output of the Redis server startup process. The text is as follows:

```
[5364] 18 Apr 12:26:34 # Warning: no config file specified, using the default configuration. In order to specify a config file use 'redis-server /path/to/redis.conf'
[5364] 18 Apr 12:26:34 * Server started, Redis version 2.4.5
[5364] 18 Apr 12:26:34 * DB loaded from disk: 0 seconds
[5364] 18 Apr 12:26:34 * The server is now ready to accept connections on port 6379
[5364] 18 Apr 12:26:35 - DB 0: 2 keys (0 volatile) in 4 slots HT.
[5364] 18 Apr 12:26:35 - 0 clients connected (0 slaves), 1180104 bytes in use
```

In the above screenshot, 0 clients are connected.

- Now run Redis client using redis-cli.exe

A screenshot of a Windows command prompt window titled "C:\Users\goudamy\Desktop\64bit\redis-cli.exe". The window shows the output of the Redis client connecting to the server. The text is as follows:

```
redis 127.0.0.1:6379> ping
PONG
redis 127.0.0.1:6379> ping
PONG
redis 127.0.0.1:6379>
```

We can see the client connection in the server is increased to 1 in the below screenshot

```
C:\Users\goudamy\Desktop\64bit\redis-server.exe

[5364] 18 Apr 12:26:55 - 0 clients connected (0 slaves), 1180104 bytes in use
[5364] 18 Apr 12:27:00 - DB 0: 2 keys (0 volatile) in 4 slots HT.
[5364] 18 Apr 12:27:00 - 0 clients connected (0 slaves), 1180104 bytes in use
[5364] 18 Apr 12:27:05 - DB 0: 2 keys (0 volatile) in 4 slots HT.
[5364] 18 Apr 12:27:05 - 0 clients connected (0 slaves), 1180104 bytes in use
[5364] 18 Apr 12:27:10 - DB 0: 2 keys (0 volatile) in 4 slots HT.
[5364] 18 Apr 12:27:10 - 0 clients connected (0 slaves), 1180104 bytes in use
[5364] 18 Apr 12:27:15 - DB 0: 2 keys (0 volatile) in 4 slots HT.
[5364] 18 Apr 12:27:15 - 0 clients connected (0 slaves), 1180104 bytes in use
[5364] 18 Apr 12:27:20 - DB 0: 2 keys (0 volatile) in 4 slots HT.
[5364] 18 Apr 12:27:20 - 0 clients connected (0 slaves), 1180104 bytes in use
[5364] 18 Apr 12:27:25 - DB 0: 2 keys (0 volatile) in 4 slots HT.
[5364] 18 Apr 12:27:25 - 0 clients connected (0 slaves), 1180104 bytes in use
[5364] 18 Apr 12:27:26 - DB 0: 2 keys (0 volatile) in 4 slots HT.
[5364] 18 Apr 12:27:26 - 0 clients connected (0 slaves), 1180104 bytes in use
[5364] 18 Apr 12:27:31 - DB 0: 2 keys (0 volatile) in 4 slots HT.
[5364] 18 Apr 12:27:31 - 0 clients connected (0 slaves), 1180104 bytes in use
[5364] 18 Apr 12:27:32 - Accepted 127.0.0.1:51295
[5364] 18 Apr 12:27:36 - DB 0: 2 keys (0 volatile) in 4 slots HT.
[5364] 18 Apr 12:27:36 - 1 clients connected (0 slaves), 1188256 bytes in use
[5364] 18 Apr 12:27:41 - DB 0: 2 keys (0 volatile) in 4 slots HT.
[5364] 18 Apr 12:27:41 - 1 clients connected (0 slaves), 1188256 bytes in use
[5364] 18 Apr 12:27:46 - DB 0: 2 keys (0 volatile) in 4 slots HT.
[5364] 18 Apr 12:27:46 - 1 clients connected (0 slaves), 1188256 bytes in use
[5364] 18 Apr 12:27:51 - DB 0: 2 keys (0 volatile) in 4 slots HT.
[5364] 18 Apr 12:27:51 - 1 clients connected (0 slaves), 1188256 bytes in use
```

Now the client is closed. In the below screenshot, We can see a message stating “client is closed” and the number of clients attached is changed to 0.

```
C:\Users\goudamy\Desktop\64bit\redis-server.exe

[5364] 18 Apr 12:27:46 - 1 clients connected (0 slaves), 1188256 bytes in use
[5364] 18 Apr 12:27:51 - DB 0: 2 keys (0 volatile) in 4 slots HT.
[5364] 18 Apr 12:27:51 - 1 clients connected (0 slaves), 1188256 bytes in use
[5364] 18 Apr 12:27:56 - DB 0: 2 keys (0 volatile) in 4 slots HT.
[5364] 18 Apr 12:27:56 - 1 clients connected (0 slaves), 1188256 bytes in use
[5364] 18 Apr 12:28:01 - DB 0: 2 keys (0 volatile) in 4 slots HT.
[5364] 18 Apr 12:28:01 - 1 clients connected (0 slaves), 1188256 bytes in use
[5364] 18 Apr 12:28:06 - DB 0: 2 keys (0 volatile) in 4 slots HT.
[5364] 18 Apr 12:28:06 - 1 clients connected (0 slaves), 1188256 bytes in use
[5364] 18 Apr 12:28:11 - DB 0: 2 keys (0 volatile) in 4 slots HT.
[5364] 18 Apr 12:28:11 - 1 clients connected (0 slaves), 1188256 bytes in use
[5364] 18 Apr 12:28:13 - Client closed connection
[5364] 18 Apr 12:28:16 - DB 0: 2 keys (0 volatile) in 4 slots HT.
[5364] 18 Apr 12:28:16 - 0 clients connected (0 slaves), 1180104 bytes in use
[5364] 18 Apr 12:28:21 - DB 0: 2 keys (0 volatile) in 4 slots HT.
[5364] 18 Apr 12:28:21 - 0 clients connected (0 slaves), 1180104 bytes in use
[5364] 18 Apr 12:28:26 - DB 0: 2 keys (0 volatile) in 4 slots HT.
[5364] 18 Apr 12:28:26 - 0 clients connected (0 slaves), 1180104 bytes in use
[5364] 18 Apr 12:28:31 - DB 0: 2 keys (0 volatile) in 4 slots HT.
[5364] 18 Apr 12:28:31 - 0 clients connected (0 slaves), 1180104 bytes in use
[5364] 18 Apr 12:28:36 - DB 0: 2 keys (0 volatile) in 4 slots HT.
[5364] 18 Apr 12:28:36 - 0 clients connected (0 slaves), 1180104 bytes in use
[5364] 18 Apr 12:28:41 - DB 0: 2 keys (0 volatile) in 4 slots HT.
[5364] 18 Apr 12:28:41 - 0 clients connected (0 slaves), 1180104 bytes in use
```

- Execute the registration page using Apache Tomcat7.0

← → ↻ 🏠 localhost:8080/280/ 🔍 ⚙️ 📌 📄

Apps 📘 Oracle | PeopleSoft ...

Registration Page

Name:

Email:

SSN:

Phone:

URL:

Password:

Age :

Gender:

Credit card number:

Create

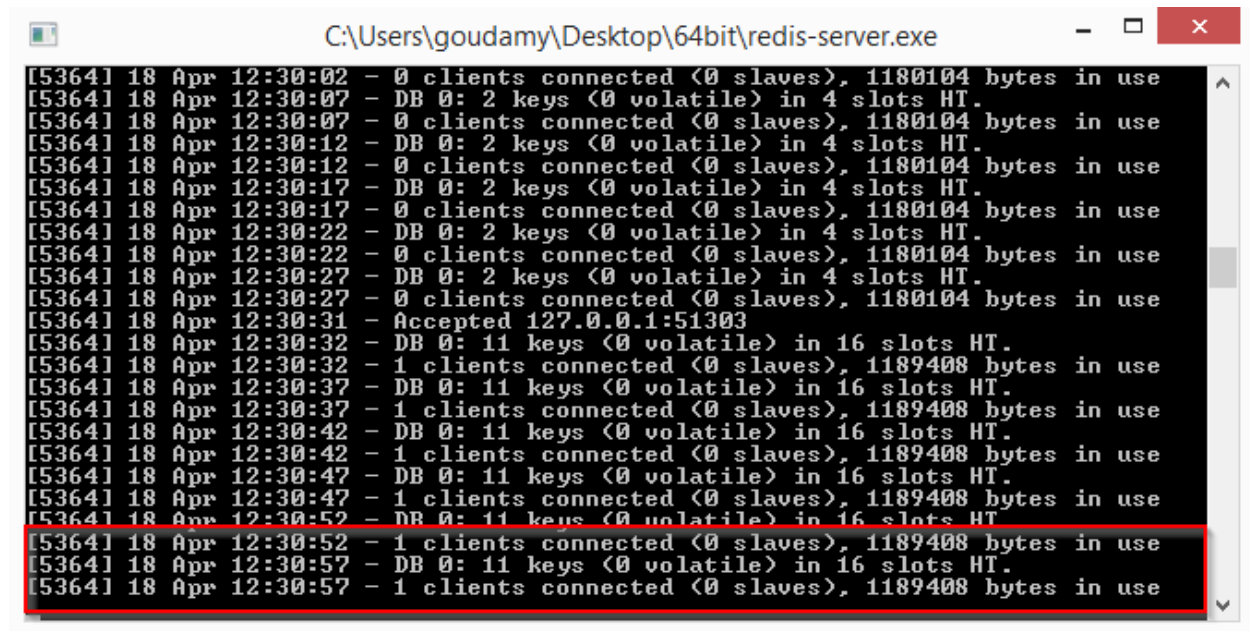
The code for the program has the below set of code, to store values to Jedis.

```
Jedis jedis = new Jedis("localhost");
System.out.println("Storing values in Redis Cache");
//adding a new key
jedis.set("name", name);
jedis.set("email", email);
jedis.set("phone", phone);
jedis.set("ssn", ssn);
jedis.set("url", url);
jedis.set("gender", gender);
jedis.set("password", passwd);
jedis.set("credit", credit);
jedis.set("age", age);
//getting the key value
System.out.println("values successfully stored in the below format");
System.out.println("name      :"+jedis.get("name"));
System.out.println("email      :"+jedis.get("email"));
System.out.println("phone      :"+jedis.get("phone"));
System.out.println("ssn        :"+jedis.get("ssn"));
System.out.println("url        :"+jedis.get("url"));
System.out.println("gender     :"+jedis.get("gender"));
System.out.println("password   :"+jedis.get("password"));
System.out.println("credit     :"+jedis.get("credit"));
System.out.println("age        :"+jedis.get("age"));
```

When the code is executed, the values are stored in Redis cache and they are displayed in the console.

```
Tomcat v7.0 Server at localhost [Apache Tomcat] C:\Program Files\Java\jdk1.8.0_40\bin\javaw.exe (Apr 18, 2015, 12:29:20 PM)
INFO: Initialization processed in 1547 ms
Apr 18, 2015 12:29:22 PM org.apache.catalina.core.StandardService startInternal
INFO: Starting service Catalina
Apr 18, 2015 12:29:22 PM org.apache.catalina.core.StandardEngine startInternal
INFO: Starting Servlet Engine: Apache Tomcat/7.0.47
Apr 18, 2015 12:29:24 PM org.apache.catalina.util.SessionIdGenerator createSecureRandom
INFO: Creation of SecureRandom instance for session ID generation using [SHA1PRNG] took [892] milliseconds.
Apr 18, 2015 12:29:25 PM org.apache.coyote.AbstractProtocol start
INFO: Starting ProtocolHandler ["http-bio-8080"]
Apr 18, 2015 12:29:25 PM org.apache.coyote.AbstractProtocol start
INFO: Starting ProtocolHandler ["ajp-bio-8009"]
Apr 18, 2015 12:29:25 PM org.apache.catalina.startup.Catalina start
INFO: Server startup in 2432 ms
Storing values in Redis Cache
values successfully stored in the below format
name      :Goudamy Sockalingam
email     :goudamy.s@gmail.com
phone     :510-857-4665
ssn       :1234-56-7890
url       :http://github.com
gender    :Female
password:Test@1234
credit   :1234-5678-9012
age       :26
```

When the registration page is being executed, the number of clients is increased to 1 as shown below.



```
C:\Users\goudamy\Desktop\64bit\redis-server.exe
[5364] 18 Apr 12:30:02 - 0 clients connected (0 slaves), 1180104 bytes in use
[5364] 18 Apr 12:30:07 - DB 0: 2 keys (0 volatile) in 4 slots HT.
[5364] 18 Apr 12:30:07 - 0 clients connected (0 slaves), 1180104 bytes in use
[5364] 18 Apr 12:30:12 - DB 0: 2 keys (0 volatile) in 4 slots HT.
[5364] 18 Apr 12:30:12 - 0 clients connected (0 slaves), 1180104 bytes in use
[5364] 18 Apr 12:30:17 - DB 0: 2 keys (0 volatile) in 4 slots HT.
[5364] 18 Apr 12:30:17 - 0 clients connected (0 slaves), 1180104 bytes in use
[5364] 18 Apr 12:30:22 - DB 0: 2 keys (0 volatile) in 4 slots HT.
[5364] 18 Apr 12:30:22 - 0 clients connected (0 slaves), 1180104 bytes in use
[5364] 18 Apr 12:30:27 - DB 0: 2 keys (0 volatile) in 4 slots HT.
[5364] 18 Apr 12:30:27 - 0 clients connected (0 slaves), 1180104 bytes in use
[5364] 18 Apr 12:30:31 - Accepted 127.0.0.1:51303
[5364] 18 Apr 12:30:32 - DB 0: 11 keys (0 volatile) in 16 slots HT.
[5364] 18 Apr 12:30:32 - 1 clients connected (0 slaves), 1189408 bytes in use
[5364] 18 Apr 12:30:37 - DB 0: 11 keys (0 volatile) in 16 slots HT.
[5364] 18 Apr 12:30:37 - 1 clients connected (0 slaves), 1189408 bytes in use
[5364] 18 Apr 12:30:42 - DB 0: 11 keys (0 volatile) in 16 slots HT.
[5364] 18 Apr 12:30:42 - 1 clients connected (0 slaves), 1189408 bytes in use
[5364] 18 Apr 12:30:47 - DB 0: 11 keys (0 volatile) in 16 slots HT.
[5364] 18 Apr 12:30:47 - 1 clients connected (0 slaves), 1189408 bytes in use
[5364] 18 Apr 12:30:52 - DB 0: 11 keys (0 volatile) in 16 slots HT.
[5364] 18 Apr 12:30:52 - 1 clients connected (0 slaves), 1189408 bytes in use
[5364] 18 Apr 12:30:57 - DB 0: 11 keys (0 volatile) in 16 slots HT.
[5364] 18 Apr 12:30:57 - 1 clients connected (0 slaves), 1189408 bytes in use
```