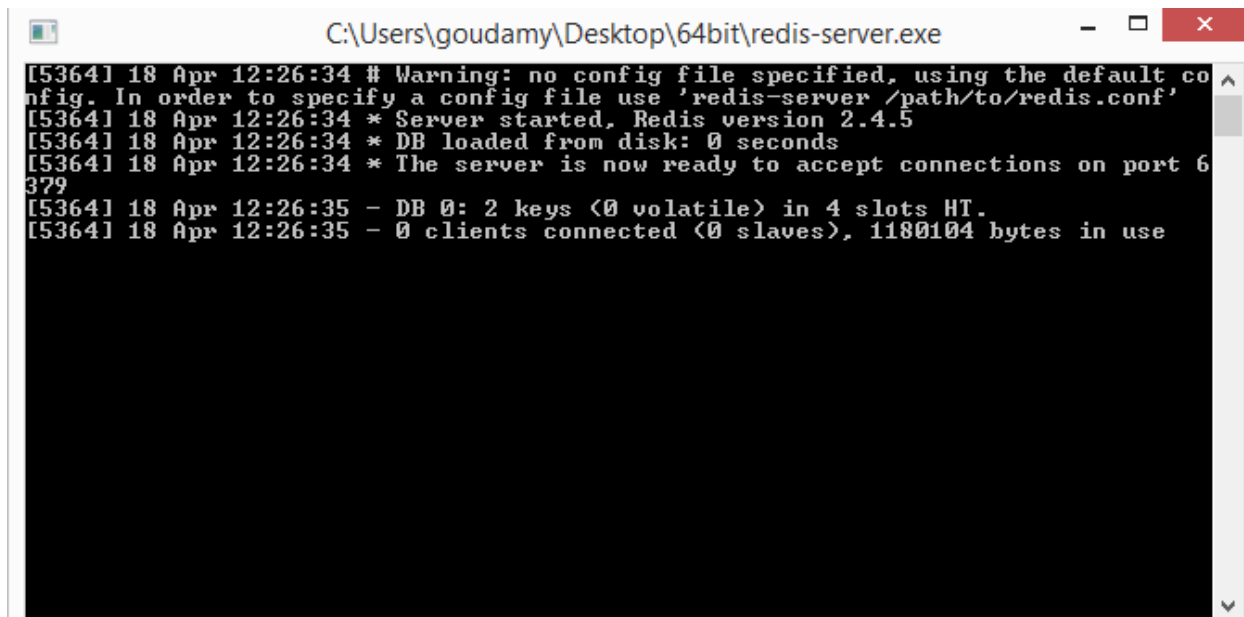Name: Goudamy Sockalingam

Student-Id: 009417148

RedisCache and Registration Page Integration

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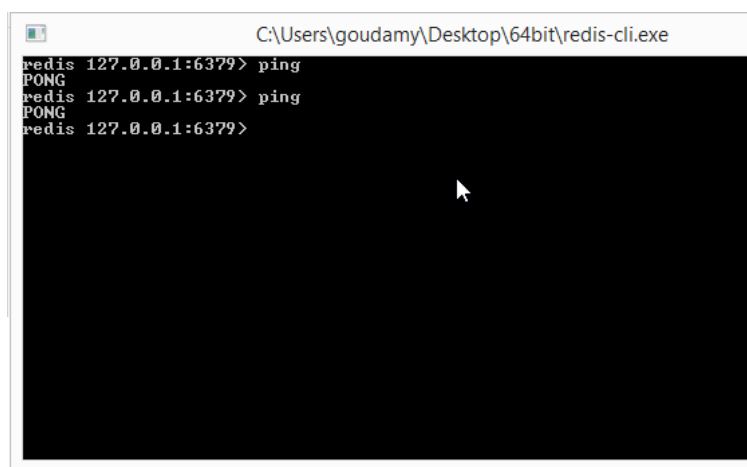
- Downloaded Redis for windows from: https://github.com/dmajkic/redis/downloads
- Downloaded Jedis jar file and placed it in the library folder of the eclipse project.
- Started Redis server by sing redis-server.exe as below

In the above screenshot, 0 clients are connected.

- Now run Redis client using redis-cli.exe

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

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.

- Execute the registration page using Apache Tomcat7.0

Registration Page

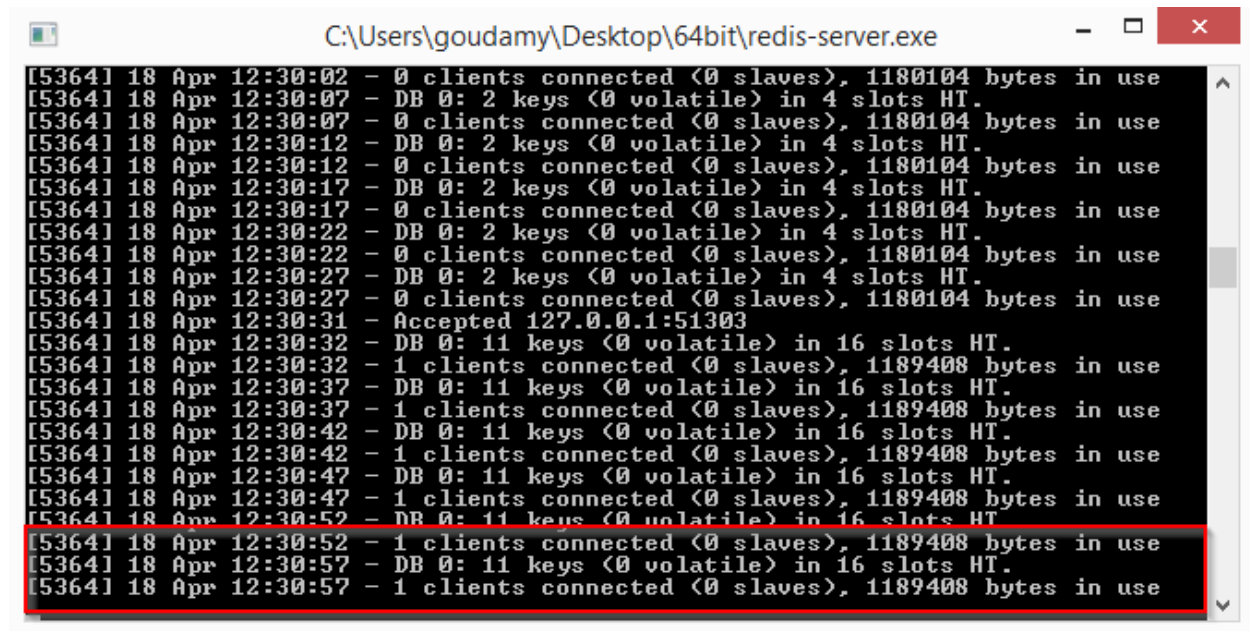|	
Name:	Goudamy Sockalingam
Email:	goudamy.s@gmail.com
SSN:	1234-56-7890
Phone:	510-857-4665
URL:	http://github.com
Password:	········
Age :	26
Gender:	Female
Credit card number:	1234-5678-9012

Create

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

```java
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",url1);
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.