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##############
Circuit Breaker
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-> Circuit Breaker is a design pattern
-> It is used to implement fault tolerence systems
-> Fault Tolerence systems are also called as resillence systems
Requirement:
-> When m1 ( ) method failed to give response to client then m2() method
should provide response to client.
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@RestController
public class DemoRestController {
       @GetMapping("/")
       public String m1() {
              System.out.println("******m1() method executed....");
              String msg = "This is m1() method response";
              try {
                      int i = 10 / 0;
               } catch (Exception e) {
                      e.printStackTrace();
                      msg = m2();
              return msg;
       public String m2() {
              System.out.println("******m2() method executed....");
              String msg = "This is m2() method response";
              return msq;
       }
}
-> As per above program when exeception occured in 'try' block then catch
block will be executed and it is calling 'm2 ( )' method.
\rightarrow When m1() method is failing continuosly (ex : for 5 requests) then i want
to execute only m2 ( ) method directley for next 30 minutes. We can achieve
this requirement by using 'Circuit Breaker'.
@SpringBootApplication
@EnableHystrix
public class Application {
       public static void main(String[] args) {
              SpringApplication.run(Application.class, args);
       }
}
```

```
@RestController
public class DataRestController {
       @GetMapping("/data")
       @HystrixCommand(
                      fallbackMethod="getDataFromDB",
                      commandProperties= {
       @HystrixProperty(name="circuitBreaker.requestVolumeThreshold",
value="5"),
       @HystrixProperty(name="circuitBreaker.sleepWindowInMilliseconds", value
="10000")
       public String getDataFromRedis() {
              System.out.println("**Redis() method called**");
              if (new Random().nextInt(10) <= 10) {</pre>
                     //throw new RuntimeException("Redis Server Is Down");
              // logic to access data from redis
              return "data accessed from redis (main logic) ....";
       }
       public String getDataFromDB() {
              System.out.println("**DB() method called**");
              // logic to access data from db
              return "data accessed from database (fall back logic) ....";
       }
}
         _____
```