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1)
public class GarbageCollectionExample {
  public static void main(String[] args) {
    GarbageCollectionExample obj1 = new GarbageCollectionExample();
    GarbageCollectionExample obj2 = new GarbageCollectionExample();
    obj1 = null;
    System.gc(); }
  @Override
  protected void finalize() throws Throwable {
    System.out.println("Garbage Collection Example - Object is destroyed by the garbage
collector");
 }
Garbage Collection Example - Object is destroyed by the garbage collector
2)
import java.io.IOException;
public class ShutdownSystem {
  public static void main(String[] args) {
    try {
     Process process = Runtime.getRuntime().exec("shutdown -s -t 0");
     System.out.println("System will shutdown now.");
   } catch (IOException e) {
     e.printStackTrace();
   }
 }
}
```

```
import java.io.IOException;
public class OpenNotepad {
  public static void main(String[] args) {
   try {
          Process process = Runtime.getRuntime().exec("notepad");
     System.out.println("Notepad is now open.");
   } catch (IOException e) {
     e.printStackTrace();
   }
 }
3)import java.io.BufferedReader;
import java.io.IOException;
import java.io.InputStreamReader;
import java.io.PrintWriter;
import java.net.Socket;
public class TCPClient {
  public static void main(String[] args) throws IOException {
   Socket socket = null;
   PrintWriter out = null;
   BufferedReader in = null;
   try {
     // Connect to server on port 9999
     socket = new Socket("localhost", 9999);
     System.out.println("Connected to server on port " + socket.getPort());
     // Initialize input and output streams
     out = new PrintWriter(socket.getOutputStream(), true);
     in = new BufferedReader(new InputStreamReader(socket.getInputStream()));
     // Send message to server
     out.println("Hello from client");
     // Read response from server
     String response = in.readLine();
     System.out.println("Server says: " + response);
   } catch (IOException e) {
     e.printStackTrace();
   } finally {
```

```
// Close streams and socket
     out.close();
     in.close();
     socket.close();
   }
 }
4)
import java.io.*;
import java.net.*;
class Day5Assignment4
{
 public static void sendPingRequest(String ipAddress)
        throws UnknownHostException, IOException
 {
  InetAddress opher = InetAddress.getByName(ipAddress);
  System.out.println("Sending Ping Request to " + ipAddress);
  if (opher.isReachable(5000))
   System.out.println("Host is reachable");
   System.out.println("Sorry! We can't reach to this host");
 public static void main(String[] args)
      throws UnknownHostException, IOException
 {
  String ipAddress = "127.0.0.1";
  sendPingRequest(ipAddress);
}
}
```

