**Core Java Assignment 10**

|  |
| --- |
| **1** |
|  | public class Java11\_1 { |
|  |  |
|  | public static void main(String[] args) { |
|  | var P=10000; |
|  | var R=6; |
|  | var T=3; |
|  | CalculateSI obj = (var a,var b,var c) -> (a\*b\*c)/100; |
|  | System.out.println(obj.sI(P, R, T)); |
|  | } |
|  |  |
|  | } |
|  |  |
|  | interface CalculateSI{ |
|  | double sI(double P,double R,double T); |
|  | } |

**3**

|  |  |
| --- | --- |
| import java.util.Arrays; | |
|  | public class Java11\_3 { | |
|  |  | |
|  | public static void main(String[] args) { | |
|  | List<String> str = Arrays.asList("A","quick","brown","fox","jumps","over","the","lazy","dog."); | |
|  | System.out.println(str); | |
|  | str.toArray(); | |
|  | str.forEach(l -> System.out.print(l + " ")); | |
|  |  | |
|  | } | |
|  |  | |
|  | } | |

**4**

|  |
| --- |
|  |
|  | import java.io.File; |
|  |  |
|  | import java.nio.file.Path; |
|  | import java.util.Collections; |
|  | import java.util.List; |
|  | import java.util.stream.Collectors; |
|  | public class Java11\_4 { |
|  |  |
|  | public static void main(String[] args) throws IOException { |
|  | var path = "C:\\Users\\Vinod R\\OneDrive\\Desktop\\work\\StudentList.txt"; |
|  | List<String> str = Files.readAllLines(Path.of(path)); |
|  |  |
|  | long count = str.stream().filter(l -> !(l.isBlank())).count(); |
|  | System.out.println(str.stream().filter(l -> !(l.isBlank())).map(l-> l.strip()).collect(Collectors.toList()) + "\nThere are " +count + " Students"); |
|  | } |
|  |  |
|  | } |

**6**

|  |
| --- |
| import java.io.IOException; |
|  | import java.net.URI; |
|  | import java.net.http.HttpClient; |
|  | import java.net.http.HttpRequest; |
|  | import java.net.http.HttpResponse; |
|  | public class Java11\_6 { |
|  |  |
|  | public static void main(String[] args) throws IOException, InterruptedException { |
|  | String url = "http://httpbin.org/get"; |
|  |  |
|  | var request = HttpRequest.newBuilder() |
|  | .uri(URI.create(url)) |
|  | .GET() |
|  | .build(); |
|  |  |
|  | var client = HttpClient.newHttpClient(); |
|  |  |
|  | HttpResponse<String> response = client.send(request, HttpResponse.BodyHandlers.ofString()); |
|  |  |
|  | System.out.println("Status Code: " + response.statusCode()); |
|  | System.out.println("Response: " + response.body()); |
|  |  |
|  | } |
|  |  |
|  | } |