**Question: E commerce Platform Search Function:**

**Code:**

package dnsolutionsproblem1;

import java.util.\*;

public class ProductSearch {

public static List<String> searchByPrefix(List<String> products, String prefix) {

List<String> result = new ArrayList<>();

for (String product : products) {

if (product.toLowerCase().startsWith(prefix.toLowerCase())) {

result.add(product);

}

}

return result;

}

public static void main(String[] args) {

List<String> products = Arrays.*asList*("shoes", "shorts", "shirt", "jacket", "jeans", "sneakers");

String prefix = "sh";

List<String> results = *searchByPrefix*(products, prefix);

System.*out*.println("Search Results: " + results);

}

}

**Output**

