

```
1 //1.write a program that shows a simple CookiePolicy that blocks cookies from any .edu.np domains, but allows others.
2
3 import java.net.CookiePolicy;
4 import java.net.URI;
5 import java.net.HttpCookie;
6
7 public class MyCookiePolicy implements CookiePolicy {
8
9     @Override
10    public boolean shouldAccept(URI uri, HttpCookie cookie) {
11        if (uri.getHost().endsWith(suffix+".edu.np")) {
12
13            return false;// block cookies from .edu.np domains
14        }
15        return true;// allow cookies from all other domains
16    }
17
18    Run|Debug
19    public static void main(String[] args) {
20        MyCookiePolicy cookiePolicy = new MyCookiePolicy();
21        System.out.println(cookiePolicy.shouldAccept(URI.create("http://www.kshitiz.com"), new HttpCookie(name="test", value="value")));
22        System.out.println(cookiePolicy.shouldAccept(URI.create("http://www.kshitiz.edu.np"), new HttpCookie(name="test", value="value")));
23    }
24
25 }
```

```
Windows PowerShell
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PS D:\Network Programming\lab1\lab3> & 'C:\Program Files\Java\jdk-20\bin\java.exe' '-enable-preview' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\DELL\A
ppData\Roaming\Code\User\workspaceStorage\726754c1f97d6d6e7a0af1a9b69f5e3\redhut.java\jdk_ws\lab3_6269d4f6\bin' 'MyCookiePolicy'
true
false
PS D:\Network Programming\lab1\lab3>
```

The screenshot shows the Visual Studio Code editor with a Java file named `cookie.java`. The code implements a `CookieStore` interface with methods for adding, reading, and deleting cookies. The `main` method demonstrates these operations using `CookieManager`, `CookieStore`, and `HttpCookie` classes. The code is as follows:

```
1 //2. Write a program to implement the CookieStore Methods (add, read, delete) cookies
2 import java.net.*;
3 import java.util.List;
4 public class cookie {
5     Run | Debug
6     public static void main(String[] args)
7     {
8         CookieManager cookieManager = new CookieManager();
9         CookieStore cookieStore = cookieManager.getCookieStore();
10        HttpCookie cookieA = new HttpCookie(name:"Raksha", value:"1");
11        HttpCookie cookieB = new HttpCookie(name:"Eshika", value:"2");
12        URI uri = URI.create(str:"https://www.raksha.org/");
13        cookieStore.add(uri, cookieA);
14        cookieStore.add(uri=null, cookieB);
15        System.out.println("Cookies successfully added\n");
16        List cookiesWithURI = cookieStore.get(uri);
17        System.out.println("Cookies associated with URI in CookieStore : "+ cookiesWithURI + "\n");
18        List cookieList = cookieStore.getCookies();
19        System.out.println("Cookies in CookieStore : "+ cookieList + "\n");
20        List urilist = cookieStore.getURIs();
21        System.out.println("URIs in CookieStore" + urilist+ "\n");
22        System.out.println("Removal of Cookie : " + cookieStore.remove(uri, cookieA));
23        List remainingCookieList = cookieStore.getCookies();
24        System.out.println("Remaining Cookies : " + cookieList + "\n");
25        System.out.println("Removal of all Cookies : "+ cookieStore.removeAll());
26        List EmptyCookieList = cookieStore.getCookies();
27        System.out.println("Empty CookieStore : "+ cookieList);
28    }
29 }
```

The Explorer sidebar shows the project structure with files like `App.java`, `cookie.java`, `lab3.code-workspace`, `MyCookiePolicy.java`, and `README.md`. The status bar at the bottom indicates the file is at line 26, column 28, with 4 spaces, UTF-8 encoding, and CRLF line endings.

The screenshot shows the Visual Studio Code terminal window with the output of the Java program. The terminal is running in Windows PowerShell. The output is as follows:

```
Windows PowerShell
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PS D:\Network Programming\lab1\lab3> & 'C:\Program Files\Java\jdk-20\bin\java.exe' '-enable-preview' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\DELL\A
ppData\Roaming\Code\User\workspaceStorage\726754c1f97d6646780af1a9bb9f5e53\redhat.java\jdt_ws\lab3_6269d4f0\bin' 'cookie'
Cookies successfully added
Cookies associated with URI in CookieStore : [Raksha="1"]
Cookies in cookieStore : [Raksha="1", Eshika="2"]
URIs in CookieStore[http://www.raksha.org]
Removal of Cookie : true
Remaining Cookies : [Eshika="2"]
Removal of all Cookies : true
Empty CookieStore : []
PS D:\Network Programming\lab1\lab3>
```

The terminal window also shows the status bar at the bottom with the same file information as the first screenshot.