

**Problem5:** Compare version numbers

---

```
def compare_versions(version1, version2):

    v1 = version1.split('.')
    v2 = version2.split('.')

    for i in range(max(len(v1), len(v2))):

        num1 = int(v1[i]) if i < len(v1) else 0
        num2 = int(v2[i]) if i < len(v2) else 0

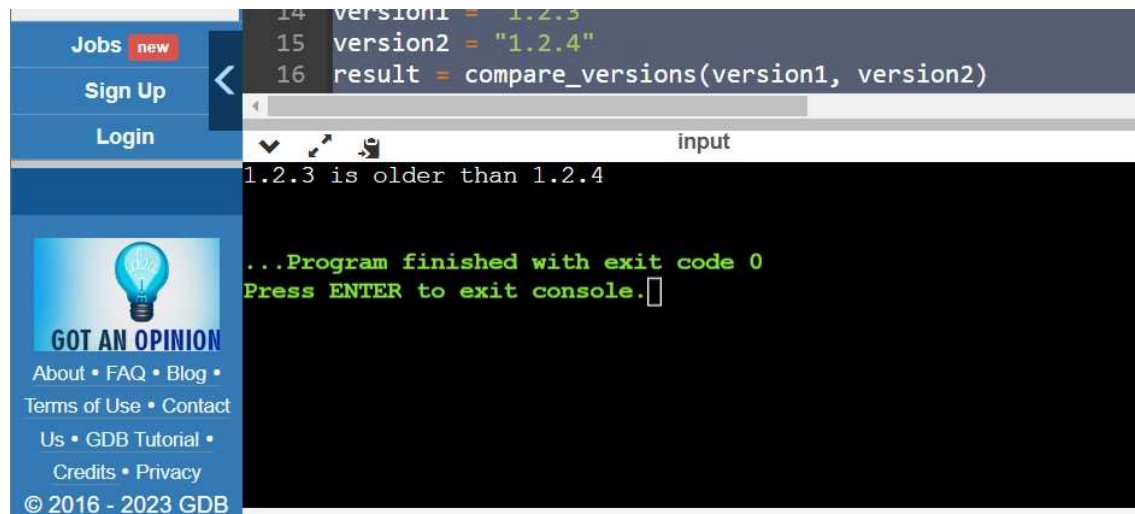
        if num1 < num2:
            return -1
        elif num1 > num2:
            return 1
    return 0

version1 = "1.2.3"
version2 = "1.2.4"
result = compare_versions(version1, version2)

if result < 0:
    print(f"{version1} is older than {version2}")
elif result > 0:
    print(f"{version1} is newer than {version2}")
```

else:

```
print(f"{version1} and {version2} are the same version")
```



The screenshot shows a web application interface. On the left is a blue sidebar with navigation links: 'Jobs' (with a 'new' badge), 'Sign Up', 'Login', and a 'GOT AN OPINION' section with links to 'About', 'FAQ', 'Blog', 'Terms of Use', 'Contact', 'Us', 'GDB Tutorial', 'Credits', and 'Privacy'. The main area is a dark-themed code editor with three lines of Python code: 

```
14 version1 = 1.2.3
15 version2 = "1.2.4"
16 result = compare_versions(version1, version2)
```

. Below the code editor is a console window with the output 

```
1.2.3 is older than 1.2.4
```

 and a message 

```
...Program finished with exit code 0
Press ENTER to exit console.
```

 with a cursor at the end of the line.