```
# Assign `approved_users` to a list of approved usernames

approved_users = ["elarson", "bmoreno", "sgilmore", "eraab", "gesparza"]

# Assign `approved_devices` to a list of device IDs that correspond to the usernames in `approved_users`

approved_devices = ["8rp2k75", "hl0s5o1", "4n482ts", "a307vir", "3rcv4w6"]

# Define a function named `login` that takes in two parameters, `username` and `device_id`

def login(username, device_id):

    # If `username` belongs to `approved_users`,

    if username in approved_users:

        # then display "The user ______ is approved to access the system.",

        print("The user", username, "is approved to access the system.")

        # assign `ind` to the index of `username` in `approved_users`,

        ind = approved_users.index(username)

        # and execute the following conditional
        # If `device_id` matches the element at the index `ind` in `approved_devices`,

        if device_id == approved_devices[ind]:

          # then display "______ is the assigned device for ______"

          print(device_id, "is the assigned device for", username)

        # Otherwise,

        else:

          # display "______ is not their assigned device"

          print(device_id, "is not their assigned device.")

    # Otherwise (part of the outer conditional and handles the case when `username` does not belong to `approved_use

    else:

        # Display "The user ______ is not approved to access the system."

        print("The username", username, "is not approved to access the system.")

# Call the function you just defined to experiment with different username and device_id combinations

login("bmoreno", "hl0s5o1")
login("elarson", "r2s5r9g")
login("abernard", "4n482ts")
```

```
The user bmoreno is approved to access the system.
hl0s5o1 is the assigned device for bmoreno
The user elarson is approved to access the system.
r2s5r9g is not their assigned device.
The username abernard is not approved to access the system.
```

Question 9

After Python enters the inner conditional, what happens when the `device_id` is correct, and what happens when the `device_id` is incorrect?

If the device_id is correct, the inner if condition returns True, and Python displays a message confirming that the device ID is assigned to the user.

If the device_id is incorrect, the inner if condition returns False, so Python executes the else block and shows a message indicating that the device ID is not assigned to the user.