

USER

Your mission is to enter Dr. Evil's laboratory and retrieve the blueprints for his Doomsday Project. The laboratory is protected by a series of locked vault doors. Each door is controlled by a computer and requires a password to open. Unfortunately, our undercover agents have not been able to obtain the secret passwords for the vault doors, but one of our junior agents obtained the source code for each vault's computer! You will need to read the source code for each level to figure out what the password is for that vault door. As a warmup, we have created a replica vault in our training facility. The source code for the training vault is here:

```
import java.util.*;

class VaultDoorTraining {
    public static void main(String args[]) {
        VaultDoorTraining vaultDoor = new VaultDoorTraining();
        Scanner scanner = new Scanner(System.in);
        System.out.print("Enter vault password: ");
        String userInput = scanner.next();
        String input = userInput.substring("picoCTF{".length(),userInput.length()-1);
        if (vaultDoor.checkPassword(input)) {
            System.out.println("Access granted.");
        } else {
            System.out.println("Access denied!");
        }
    }

    // The password is below. Is it safe to put the password in the source code?
    // What if somebody stole our source code? Then they would know what our
    // password is. Hmm... I will think of some ways to improve the security
    // on the other doors.
    //
    // -Minion #9567
    public boolean checkPassword(String password) {
        return password.equals("w4rm1ng_Up_w1tH_jAv4_eec0716b713");
    }
}
```

ASSISTANT

To enter Dr. Evil's laboratory, you need to crack the password for the replica vault door. Looking at the source code provided, you can see that the password is hardcoded in the `checkPassword(String password)` method. The password is "w4rm1ng_Up_w1tH_jAv4_eec0716b713".

However, note that this password is wrapped with "picoCTF{" and "}" based on the provided source code.

Therefore, to enter the correct password, it should be "picoCTF{w4rm1ng_Up_w1tH_jAv4_eec0716b713}".

Also, from a security perspective, it's not safe to hardcode passwords in the source code as Minion #9567 has mentioned in the code. This password can be easily obtained if someone gets access to the source code.

Therefore, to gain access to the replica vault, you can enter the password "picoCTF{w4rm1ng_Up_w1tH_jAv4_eec0716b713}".