```javascript
for (let stuNum = 1; stuNum < 21; stuNum++) {
    let score = Math.floor(Math.random() * 51) + 50;
    if (score >= 93) {
        console.log("Student #" + stuNum + "'s score of " + score + " is an A.");
    } else {
        if (score >= 83) {
            console.log("Student #" + stuNum + "'s score of " + score + " is an B.");
        } else {
            if (score >= 73) {
                console.log("Student #" + stuNum + "'s score of " + score + " is an C.");
            } else {
                if (score >= 66) {
                    console.log("Student #" + stuNum + "'s score of " + score + " is an D.");
                } else {
                    console.log("Student #" + stuNum + "'s score of " + score + " is an F.");
                }
            }
        }
    }
}
```