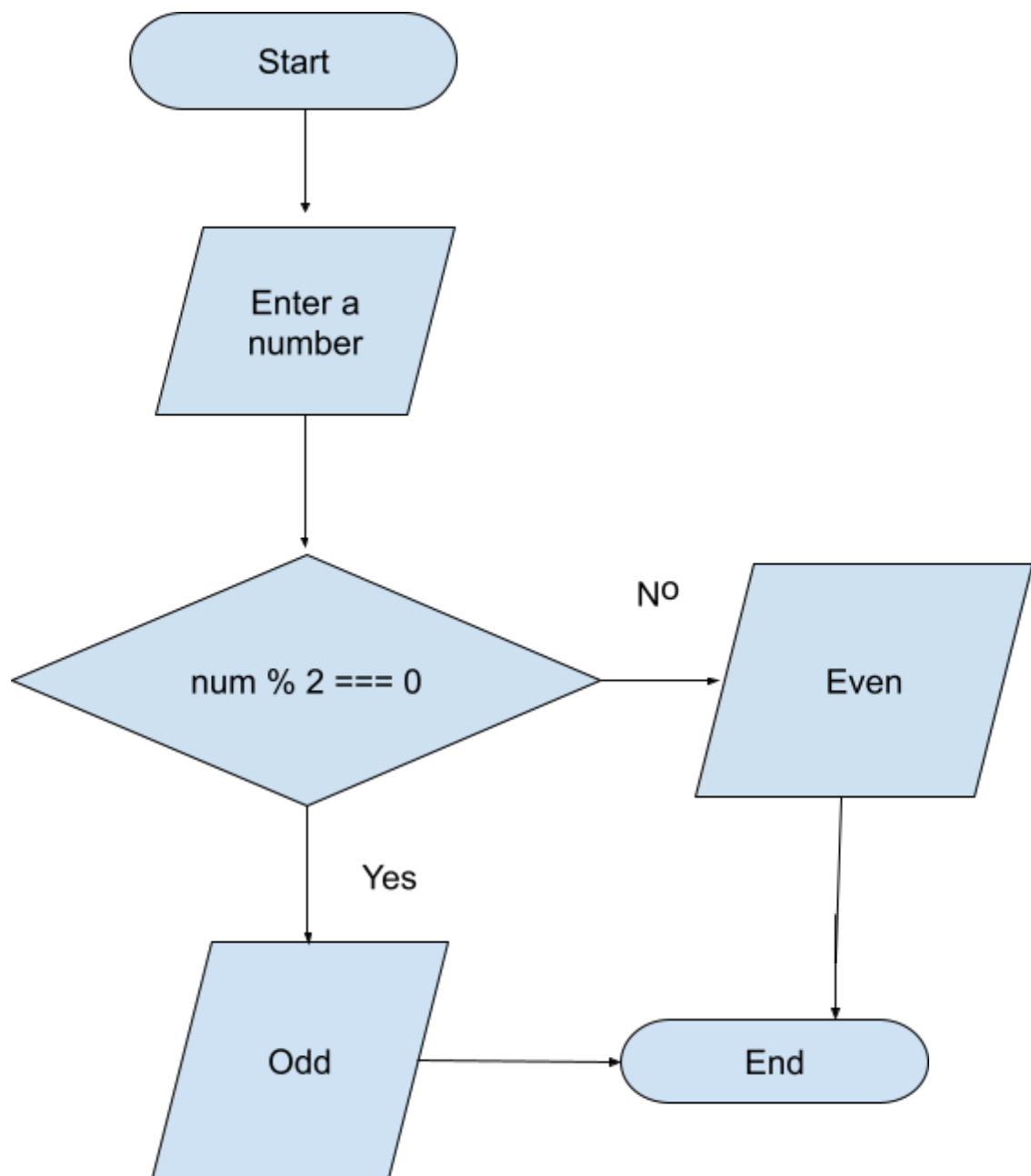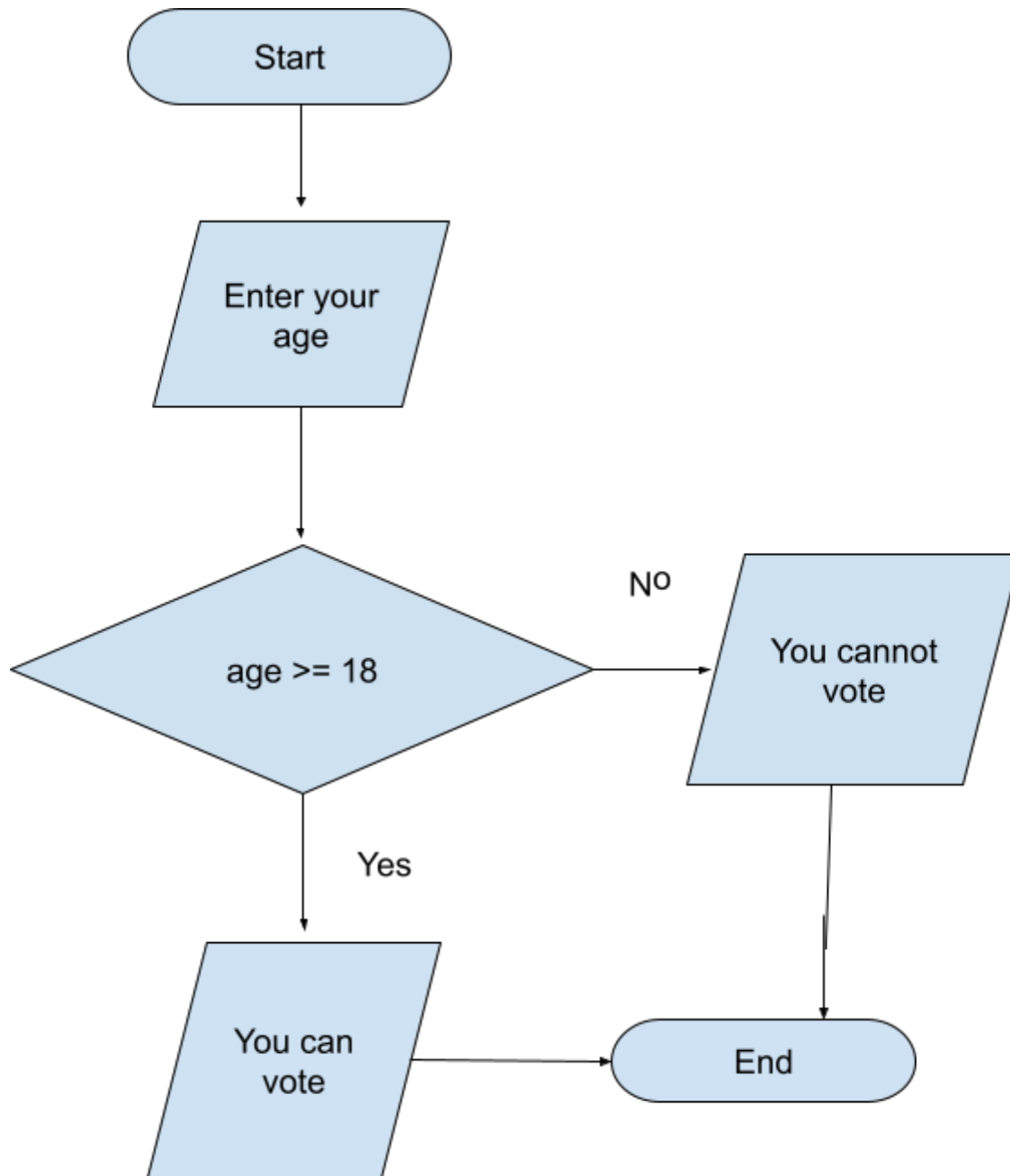# Question 1

```
let num = prompt("Enter a number:");
if (num % 2 === 0) {
console.log("Odd");
}
else {
console.log("Even");
}
```
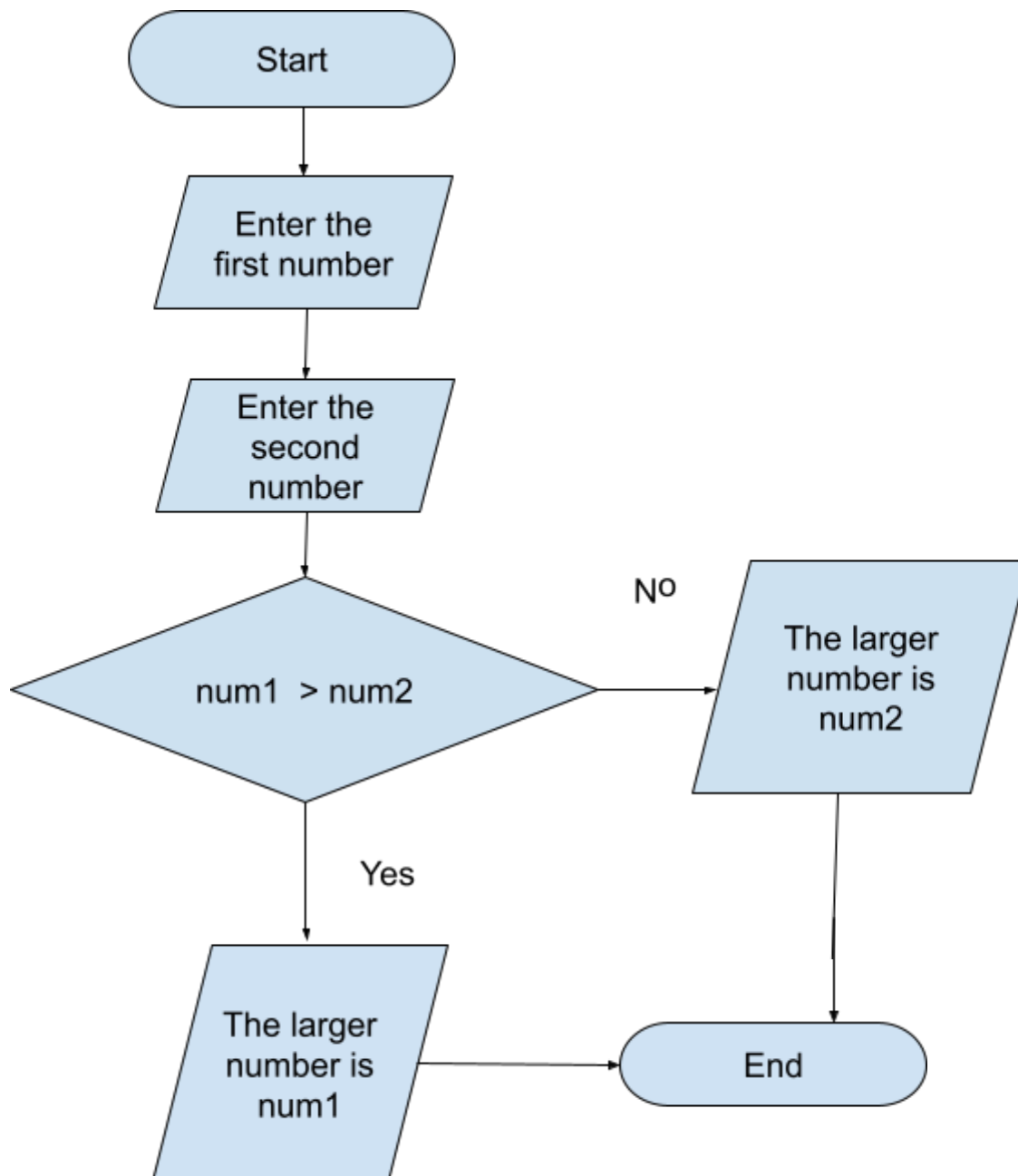
Question 2

```
let age = prompt("Enter your age:");
if (age >= 18) {
console.log("You can vote");
} else {
console.log("You cannot vote");
}
```
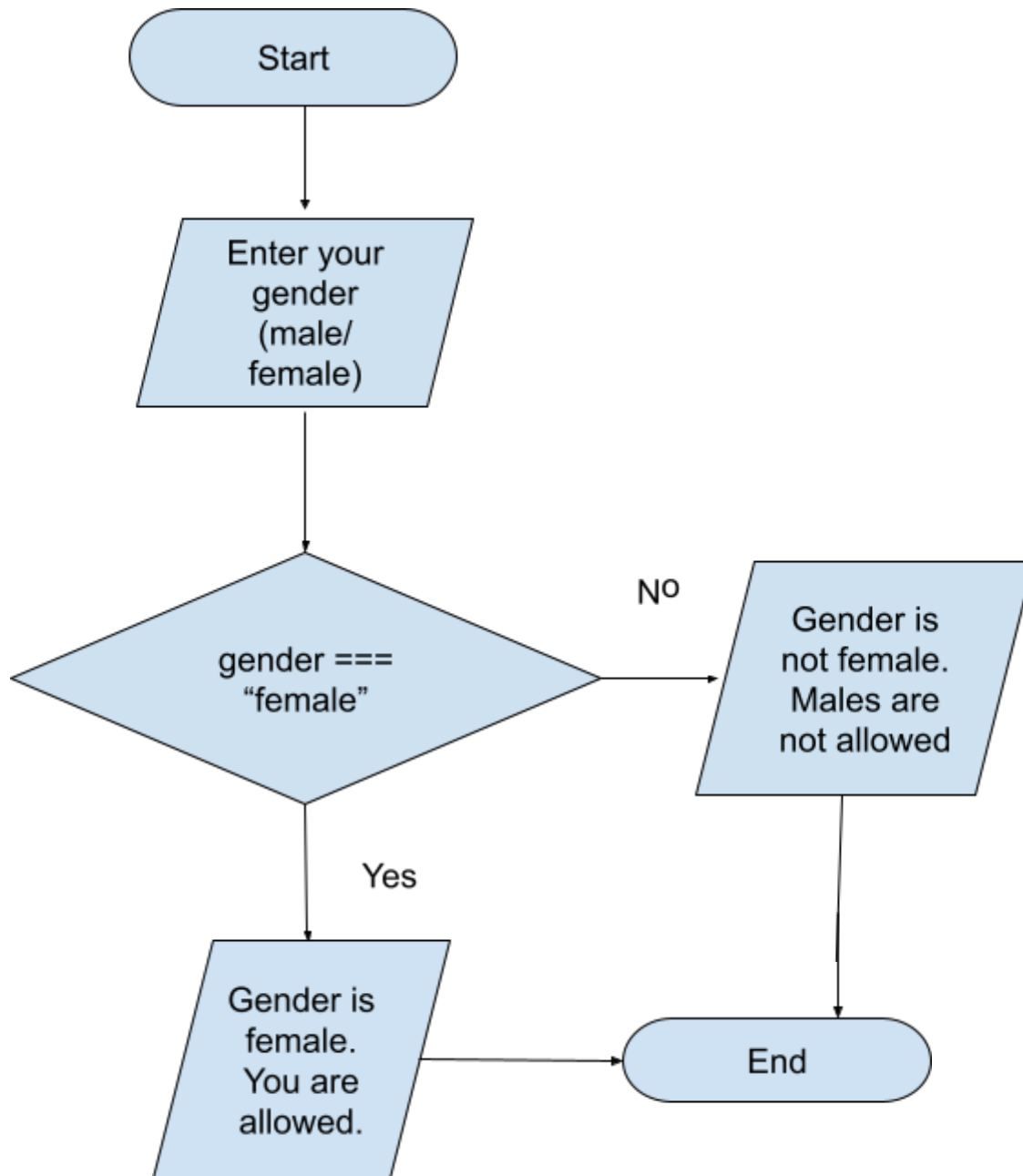
Start

Enter your age

age >= 18

No

You cannot vote

Yes

You can vote

End

Question 3

```
let num1 = prompt("Enter the first number:");
let num2 = prompt("Enter the second number:");
if (num1 > num2) {
console.log("The larger number is:", num1);
} else {
console.log("The larger number is:", num2);
}
```
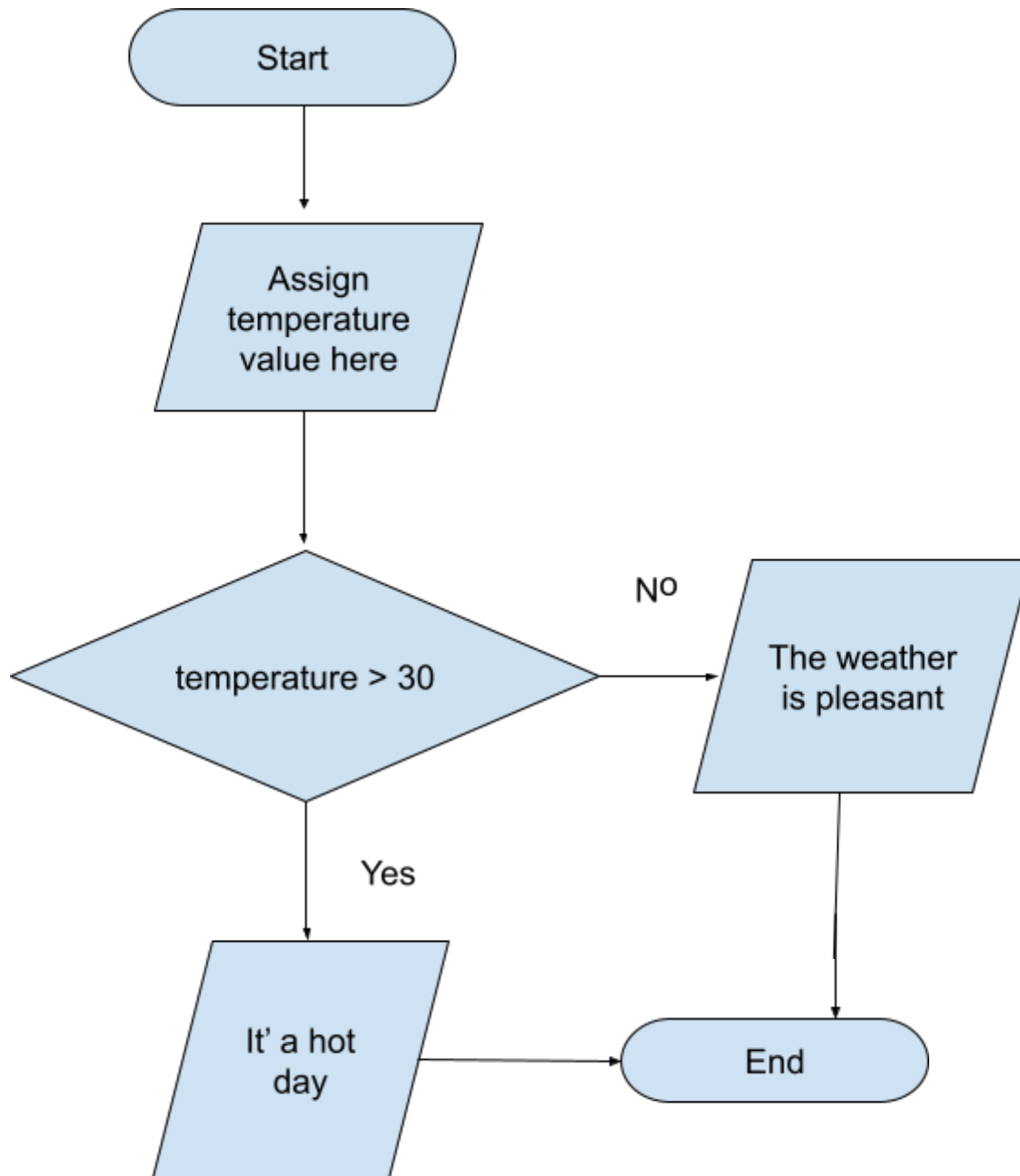
Start

Enter the
first number

Enter the
second
number

num1 > num2

No

The larger
number is
num2

Yes

The larger
number is
num1

End

Question 4

```
let gender = prompt("Enter your gender (male/female)")
if (gender === "female") {
console.log("Gender is female. You are allowed.");
} else {
console.log("Gender is not female. Males are not allowed.");
}
```
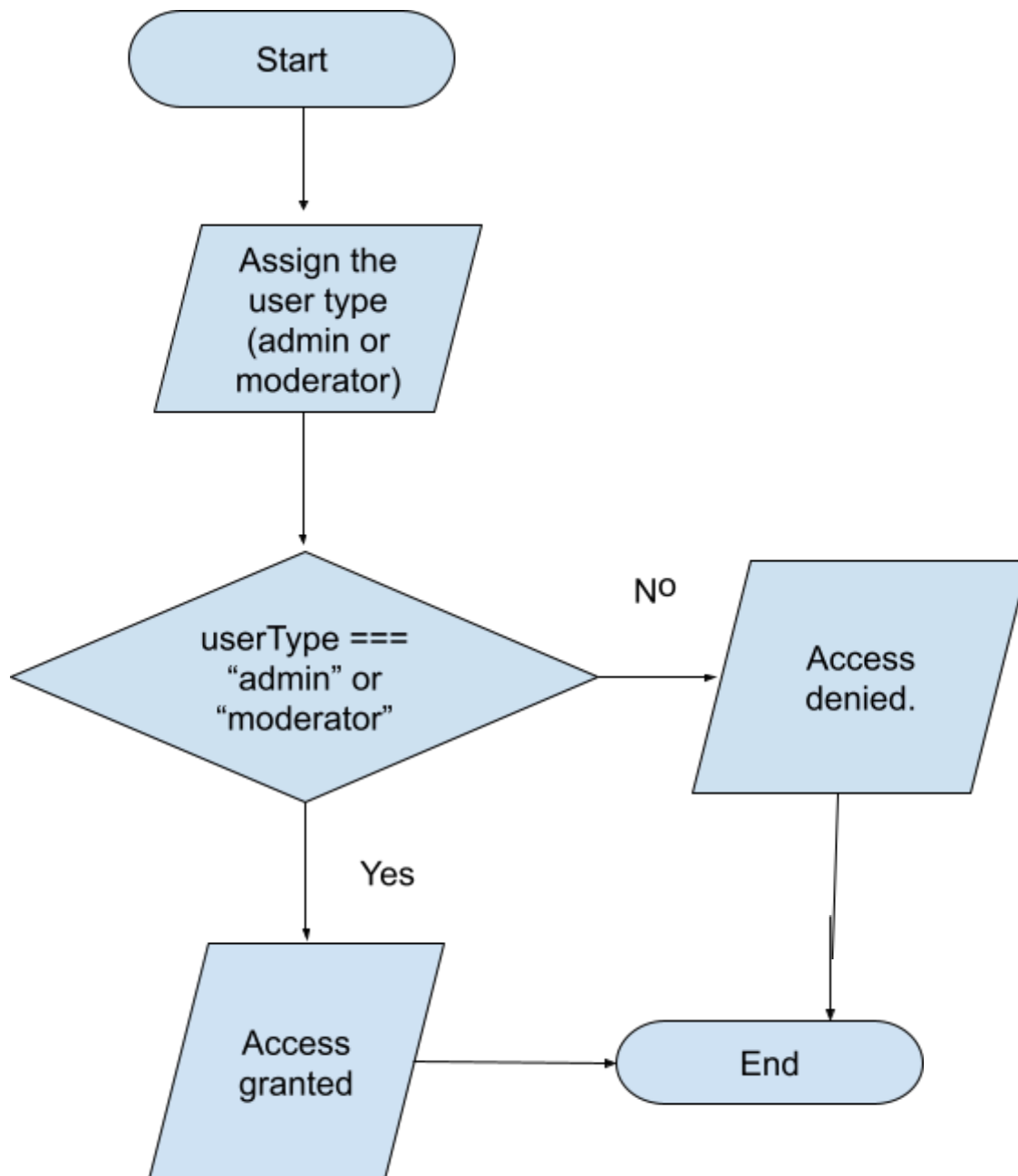
Start

Enter your gender (male/female)

gender === "female"

No → Gender is not female. Males are not allowed

Yes → Gender is female. You are allowed.

End

Question 5

```
let temperature= prompt("Assign a temperature value here")
if (temperature > 30) {
alert("It's a hot day!");
} else {
alert("The weather is pleasant");
}
```

```mermaid
flowchart TD
    Start([Start]) --> Assign[/Assign temperature value here/]
    Assign --> Decision{temperature > 30}
    Decision -->|No| Pleasant[/The weather is pleasant/]
    Decision -->|Yes| Hot[/It' a hot day/]
    Pleasant --> End([End])
    Hot --> End
```
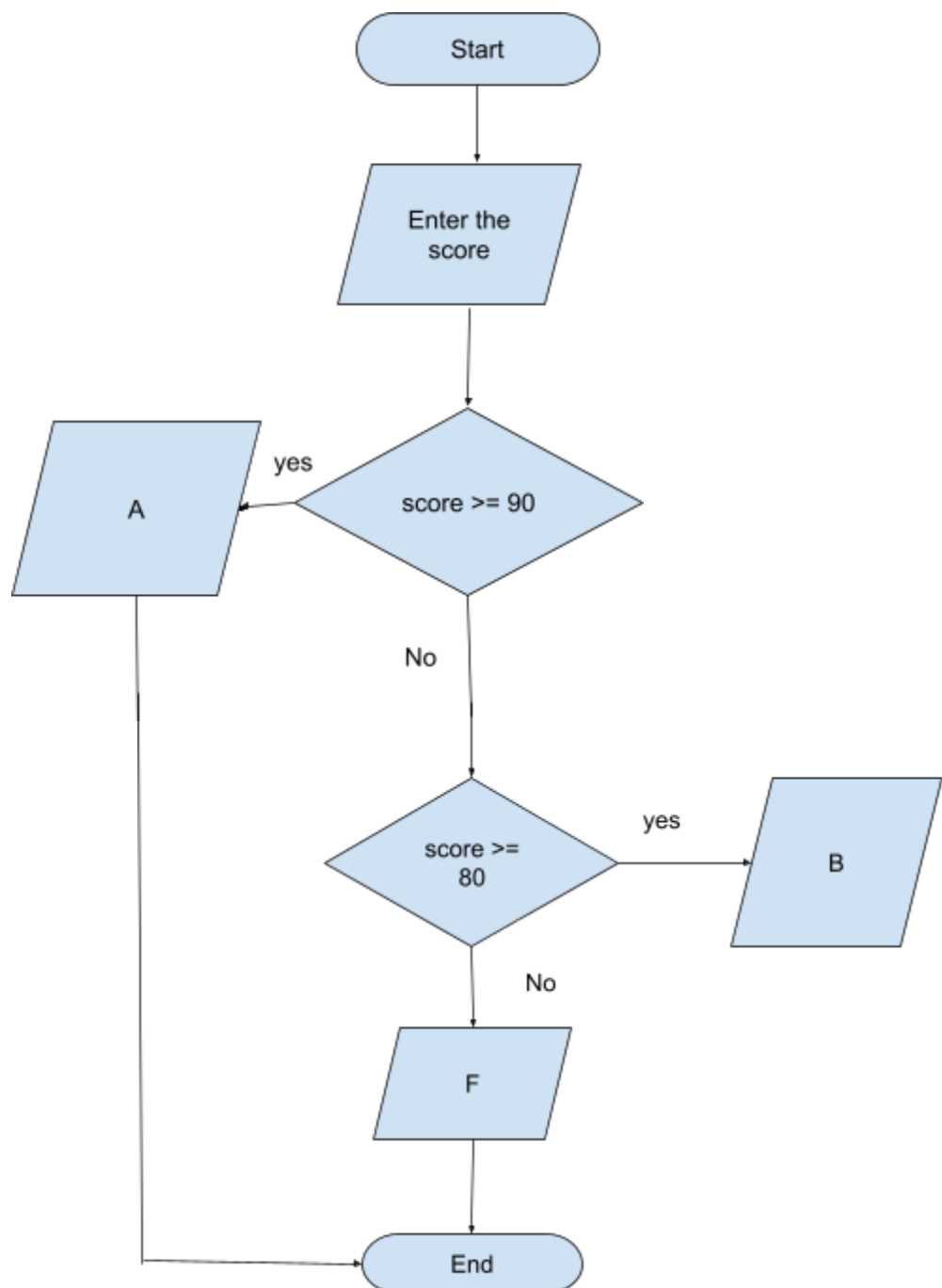
Question 6

```
let userType = prompt("Assign the user type (admin or moderator)") ;
if (userType === "admin" || userType === "moderator") {
alert("Access granted.");
} else {
alert("Access denied.");
}
```
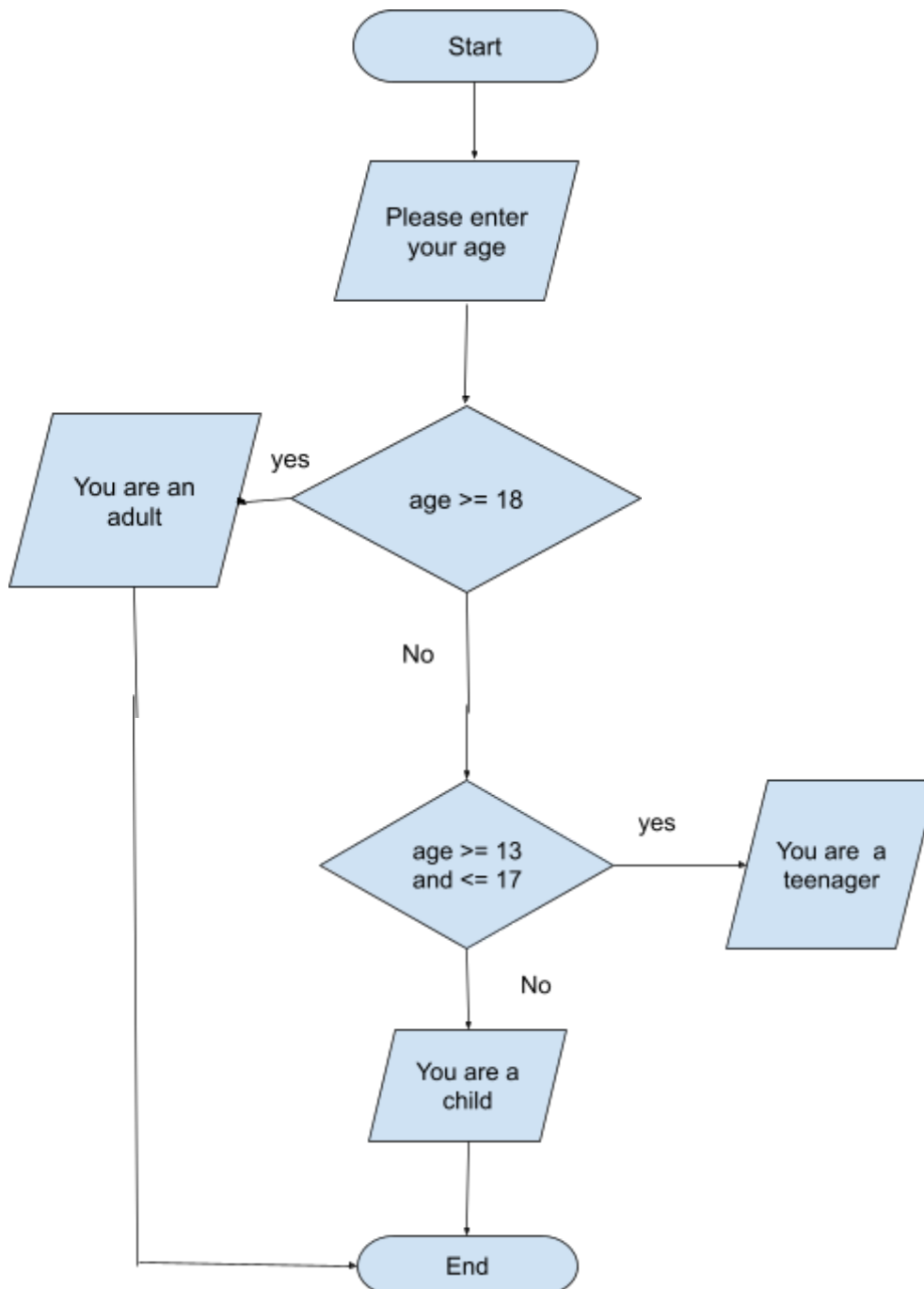
Question 7

```
let score = prompt("Enter the score");
if (score >= 90) {
alert("A");
} else if (score >= 80) {
alert("B");
}else {
alert("F");
}
```
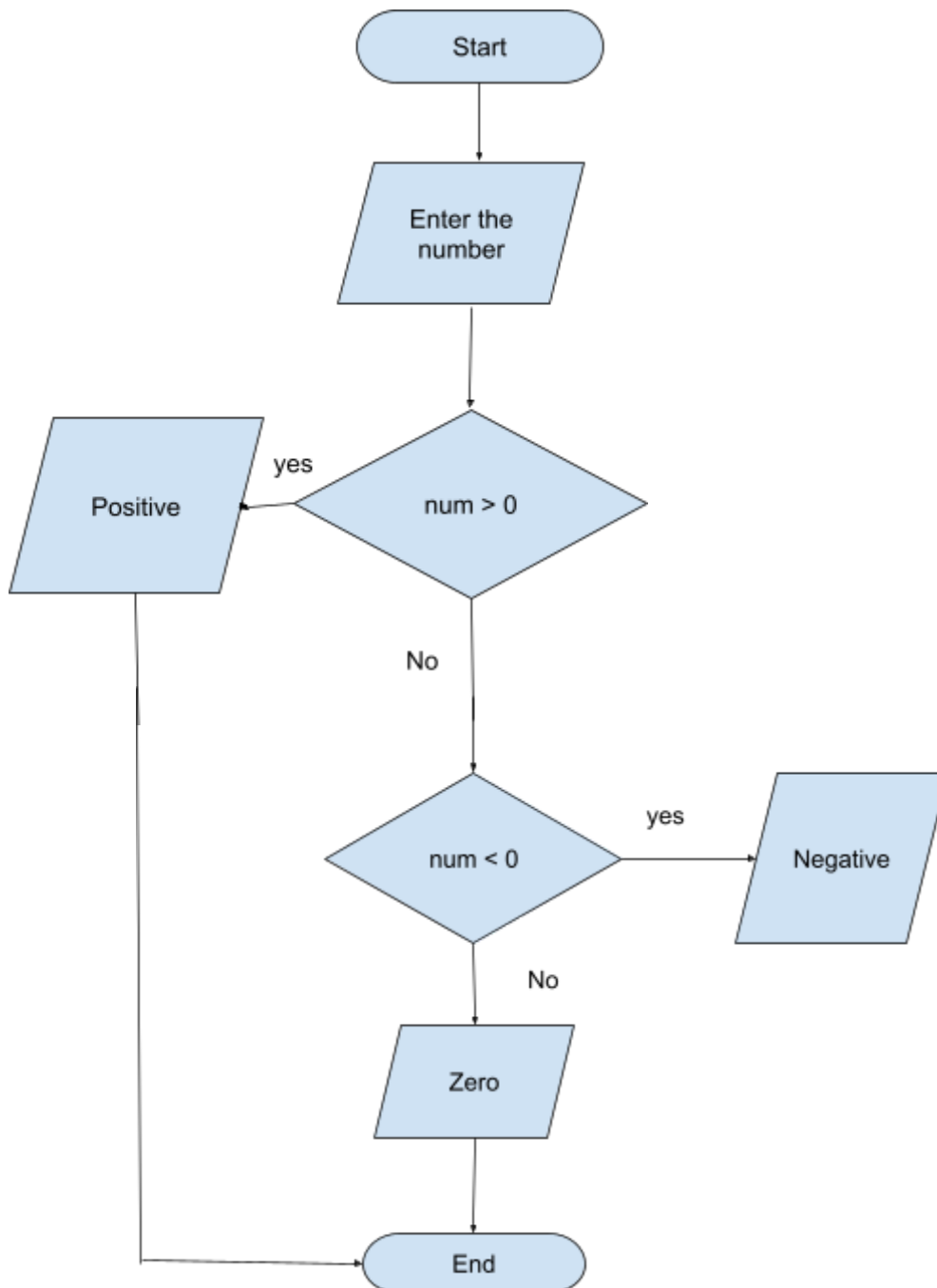
Question 8

```
let age = prompt("Please enter your age:");
if (age >= 18) {
console.log("You are an adult");
} else if (age >= 13 && age <= 17) {
console.log("You are a teenager");
} else {
console.log("You are a child");
}
```

Start

Please enter your age

yes

You are an adult

age >= 18

No

age >= 13 and <= 17

yes

You are a teenager

No

You are a child

End

Question 9

```
let num = prompt("Enter the Number");
if (num > 0) {
console.log("Positive");
} else if (num < 0) {
console.log("Negative");
} else {
console.log("Zero");
}
```

Start

Enter the number

yes

Positive

num > 0

No

num < 0

yes

Negative

No

Zero

End

Question 10

```
let isRaining = prompt("Enter true or False");
if (isRaining) {
console.log("It's raining, take an umbrella.");
} else {
console.log("No need for an umbrella today.");
}
```

Start

Enter true or false

isRainning == true

No → No need for an umbrella today

Yes

It's raining take an umbrella

End