Question 1: Voting Eligibility
Scenario: Determine if a person is eligible to vote.

Inputs:
- `age`
- `citizenship` (boolean)

Outputs:
- `canVote`

Algorithm:
1. Check if the age of the person is 18 or older.
2. Check if the person has citizenship.
3. If both conditions are true, print `canVote`.
4. Otherwise, print `can not Vote`.

Example:
- Input: `age = 20`, `citizenship = true`
- Output: `canVote
`

Question 2: Admission to a Club
Scenario: Determine if a person can enter a club.

Inputs:
- `age`
- `hasInvitation` (boolean)

Outputs:
- `canEnterClub`

Algorithm:
1. Check if the age of the person is 21 or older.
2. Check if the person has an invitation.
3. If either condition is true, print `canEnterClub`.
4. Otherwise, print `canNotEnterClub` .

Example:
- Input: `age = 20`, `hasInvitation = true`
- Output: `canEnterClub`

Question 3: Discount Eligibility
Scenario: Determine if a person is eligible for a discount at a store.

Inputs:
- `isMember` (boolean)
- `age`

Outputs:
- `isEligibleForDiscount`

Algorithm:
1. Check if the person is a member.
2. Check if the person is a senior (65 years old or older).
3. If either condition is true, print `isEligibleForDiscount`.
4. Otherwise, set `isNotEligibleForDiscount`.

Example:
- Input: `isMember = false`, `age = 70`
- Output: `isEligibleForDiscount`

Question 4: Scholarship Eligibility
Scenario: Determine if a student is eligible for a scholarship.

Inputs:
- `gpa`
- `extracurriculars` (boolean)
- `recommendation` (boolean)

Outputs:
- `isEligibleForScholarship` (boolean)

Algorithm:
1. Check if the GPA of the student is 3.5 or higher.
2. Check if the student participates in extracurricular activities.
3. Check if the student has a recommendation letter.
4. If the GPA is 3.5 or higher AND either participation in extracurricular activities or a recommendation letter is true, print `isEligibleForScholarship`.
5. Otherwise, set `isNotEligibleForScholarship`.

Example:
- Input: `gpa = 3.6`, `extracurriculars = true`, `recommendation = false`
- Output: `isEligibleForScholarship`

1.

```
//-----------------1--------------------

var age=20
is_Citizenship=true
if(age>=18 && is_Citizenship==true){
    console.log("canvote ");

}
else{
    console.log("cannot vote");

}
```

```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS
PS D:\10k\HTML\js> node logical.js
canvote
PS D:\10k\HTML\js>
```

2.

```
//---------------2-----------------

var age=20
hasInvitation=true
if(age>=21 || hasInvitation==true){
    console.log("canEnterClub");

}
else{
    console.log("canNotEnterClub");

}
```

```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS
PS D:\10k\HTML\js> node logical.js
canEnterClub
PS D:\10k\HTML\js>
```

3.

```
//----------------------3------------

var isMember=true
age=70
if(age>=60 || isMember==false){
    console.log("isEligibleForDiscount");

}
else{
    console.log("isNotEligibleForDiscount");

}
```

```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS

PS D:\10k\HTML\js> node logical.js
isEligibleForDiscount
PS D:\10k\HTML\js>
```

4.

```
//---------------4------------------

var gpa=3.6
extracurricular=true
recommendation=true
if(gpa>=3.5 && extracurricular==true || recommendation==false ){
    console.log("isEligibleForScholorship");
}
else{
    console.log("isNotEligibleForScholorship");

}
```

```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS

PS D:\10k\HTML\js> node logical.js
isEligibleForScholorship
PS D:\10k\HTML\js>
```