JAVASCRIPT-9

1.Question-1: Voting Eligibility

**Scenario: ** Determine if a person is eligible to vote.

Input

-age

-citizenships (boolean)

Output

-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"can vote"

4.Otherwise, print "cannot vote"

Example

-Input:'age=20','citizenship=true'

-Output:'can vote'

Code:var age=18;

```
 var citizenship=false;
if(age>=18&&citizenship==true)
{
 console.log("Canvote");


}
else
 {
   console.log("Cannot Vote");
 }
```

2.Question-2: Admission to a Club

**Scenario: ** Determine if a person is can enter a club

Input

-age

-hasInvitation (boolean)

Output

-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"can Enter Club"

4.Otherwise, print "cannot Enter Club"

Example

-Input:'age=20','hasInvitation'=true'

-Output:'can Enter Club'

Code:var age=18;

var hasInvitation=true;

```
if(age>=21||hasInvitation!=true)
{
console.log("CanEnterClub");
}
else {
console.log("CannotEnterClub");
```

}

3.Question-3: Discount Eligibility

**Scenario: ** Determine if a person is eligible for a discount at a store.

Input

-age

-isMember (boolean)

Output

-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, print "isNotEligibleForDiscount"

Example

-Input:'age=70','isMember=false'

-Output:'isEligibleForDiscount'

Code: var Ismember=true;

 var age=60;

if(Ismember!=true||age>=65)

 {

console.log("IsEligibleForDiscount");

}

else {

    console.log("IsNotEligibleForDiscount");

 }

4.Question-4: Scholarship Eligibility

**Scenario: ** Determine if a student is eligible for a scholarship.

Input

-gpa

-recommendation(boolean)

-extracurricularactivites(boolean)

Output

-isElibibleForScholarship(boolean)

**Algorithm; **

1.Check if the GPA of the student is 3.5 or higher.

2.Check if the student participates in extra circular activities.

3.Check if the student has a recommendation letter.

4.If the GPA is 3.5 or higher AND either participate in extracurricular activities or a recommendation letter true,print'IsEligibleForScholarship'.

5.Otherwise, set 'IsNotEligibleForScholarship'

Example

-Input:'age=3.6','extracurricularactivites=true, recommendation=false'

-Output:'isEligibleForScholarship'.

Code:

```
 var gpa=3.5;
var extracurricularactivites=true;
var recommendation=false;
 if (gpa>=3.5&&extracurricularactivites!=true||recommendation==true)
{
console.log("IsEligibleForScholarShip");
 }
```

```
else
{
  console.log("IsEligibleNotForScholarShip");
}
```