◆ JavaScript Beginner Practice: If-Else Statements

1. Ask the user for their age. If the age is 18 or more, show an alert: `"You are an adult."`, else show: `"You are a minor."`

2. Ask the user to enter a number. If it's **positive**, log: `"Positive number"`; else log: `"Not positive"`.

3. Ask the user for a number. If it's **even**, alert: `"Even number"`; else alert: `"Odd number"`.

4. Ask for a username. If the username is `"admin"`, display `"Welcome, admin!"`; else display `"Access denied."`

5. Ask for two numbers. If they are equal, log `"Both numbers are the same"`; otherwise, log `"The numbers are different"`.

6. Ask the user to enter two numbers. Check which one is larger and alert: `"First is larger"` or `"Second is larger"`.

7. Ask for a number. If it's greater than 100, alert `"Too big!"`, else alert `"Within range"`.

8. Ask for a score. If it's **50 or higher**, log `"You passed!"`, else log `"You failed."`

9. Ask the user to enter a temperature. If it's over 30, alert `"It's hot!"`; else alert `"It's not hot."`

10. Ask the user to enter a number. If it's **0**, alert `"Zero"`; if it's not zero, alert `"Not zero"`.

11. Ask the user for their age. If it's 60 or more, log `"You are a senior citizen."`, else log `"You are not a senior."`

12. Ask the user for their name. If the name is `"Alice"`, alert `"Hi, Alice!"`; else alert `"You're not Alice!"`

13. Ask the user for a password. If it matches `"12345"`, log `"Correct password"`; else log `"Wrong password"`.

14. Ask the user for the current hour (0–23). If it's less than 12, alert `"Good morning!"`; else alert `"Good afternoon!"`

15. Ask the user to enter a number. If it's divisible by 5, log `"Divisible by 5"`; else log `"Not divisible by 5"`.

16. Ask the user if they want to play a game (yes/no). If they type `"yes"`, alert `"Let's play!"`; else alert `"Maybe next time!"`

17. Ask the user for a color. If the color is `"blue"`, log `"Cool choice!"`; else log `"Interesting color!"`

18. Ask for the day of the week. If it's `"Sunday"`, alert `"Weekend!"`; else alert `"Weekday"`.

19. Ask the user to enter a fruit. If it's `"banana"` or `"apple"`, alert `"We have that!"`; else alert `"Sorry, out of stock."`

20. Ask the user to type `"start"` to begin. If they do, alert `"Game started!"`; else alert `"Waiting for input..."`

Here is the content formatted for a Google Doc. You can copy and paste it directly into Google Docs, or I can generate and export a downloadable version if you'd like.

Title: Advanced JavaScript Conditional Logic Practice

◆ **Instructions:**

Write JavaScript `if - else if - else` conditions to solve the following problems. Use logical operators like `&&` and `||` where applicable. Do not write solutions here—just practice writing the condition blocks.

1. Age-Based Grade Check

Check a student's marks and display:

- "Distinction" if marks ≥ 80

- "Pass" if marks ≥ 50 and < 80

- "Fail" if marks < 50

- "Invalid Marks" if marks are not between 0 and 100

2. Discount Eligibility Based on Age and Membership

Given a person's age and membership status, show:

- "Senior Premium Discount" if age ≥ 60 **and** is a premium member

- "Senior Discount" if age ≥ 60

- "Premium Discount" if a premium member

- "No Discount" otherwise

3. Login and Email Verification

- If user is logged in **and** email is verified → "Access granted"

- If user is logged in **but not** verified → "Please verify your email"

- If not logged in → "Please log in"

4. Contest Eligibility

Check if a person is eligible to enter a contest:

- Must be between ages 18–35

- Must be from Pakistan or India

- Must not be banned

Display appropriate messages for age, region, or ban issues.

---

5. Subscription Access Check

Given the subscription plan and login status:

- "Welcome Premium User" if plan is "premium" and logged in

- "Welcome Free User" if plan is "free" and logged in

- "Please log in to continue" if not logged in

- "Invalid subscription" otherwise

---

6. Product Purchase Validation

Check product conditions:

- "Buy now with discount" if price > 1000, in stock, and user is a member

- "Buy now" if in stock

- "Out of stock" if stock === 0

- "Invalid product" otherwise

---

7. Work Hours Check

Check based on `hoursWorked` and `isWeekend`:

- "Overtime" if hours > 40 and not a weekend

- "Weekend work" if hours > 0 and is weekend

- "Regular hours" if ≤ 40

- "No work" if hours === 0

---

8. Age and Gender Classification

Given a user's age and gender:

- "Teen Male" if age 13–19 and gender is "male"

- "Teen Female" if age 13–19 and gender is "female"

- "Adult" if age ≥ 20

- "Child" if age < 13

---

9. Weather Warning System

Based on temperature and humidity:

- "Heatwave Alert" if temp ≥ 40 and humidity ≥ 60

- "Hot and Dry" if temp ≥ 40 and humidity < 60

- "Cool Weather" if temp ≤ 20

- "Moderate" otherwise

---

10. Score Grading System

Given a score between 0–100:

- "Excellent" for 90–100

- "Good" for 70–89

- "Average" for 50–69

- "Poor" for 30–49

- "Fail" below 30

- "Invalid Score" if out of range

---

11. Course Access Control

To access a course:

- Must be logged in

- Must be enrolled

- Must not be banned

Show: "Access granted", "Enroll in course first", "User is banned", or "Please log in"

---

12. Driving Conditions

Given a user's speed and license status:

- "License suspended" if speed > 120

- "Warning" if speed between 100–120

- "Normal driving" if speed ≤ 100 and has license

- "Driving without license" otherwise

---

13. Order Processing Status

For an online order:

- "Order on the way" if payment is complete and shipped

- "Preparing your order" if payment is complete and not shipped

- "Awaiting payment" if payment is pending

- "Payment failed" if transaction failed

---

14. Battery Status Checker

Given battery level and charging state:

- "Fully Charged" if level === 100

- "Charging..." if level < 100 and charging

- "Low Battery" if level < 20 and not charging

- "Battery OK" otherwise

---

15. Browser and Device Compatibility Check

Based on user's browser and device:

- "Full features enabled" if browser is Chrome and device is Desktop

- "Limited mobile features" if browser is Chrome and device is Mobile

- "Please switch to Chrome" for all other browsers

Would you like me to generate a downloadable **Google Doc** or **PDF** version of this for print or classroom sharing?