**MINI PROJECTS IN JAVASCRIPT**

****1. Grade Calculator:**** Write a program that takes a student's score as input and prints their grade according to the following grading scale:

* A: 90-100
* B: 80-89
* C: 70-79
* D: 60-69
* F: Below 60
* Also output invalid input if the user enters an alphabet or special character

I.e =>Your program should print an output of A if the user enters an input value between the range of 90 - 100, B if the input is 80 - 89 and so on.

1. ****Leap Year Checker:**** Write a program that checks whether a given year is a leap year. Leap years are divisible by 4, except for years divisible by 100 but not by 400. Print "Leap year" or "Not a leap year" accordingly.

I.e Accept the input for a year, pass it through your operator, if there’s no remainder, then it’s a leap year, else it’s not, so you print your outputs accordingly. E.g if the input entered is 2000 (year 2000), then it’s a leap year because 2000/4 is 500 without a remainder.

****3. Temperature Classifier:**** Write a program that takes a temperature in Celsius as input and classifies it into one of three categories: "Hot" (greater than 30°C), "Moderate" (20-30°C), or "Cold" (below 20°C).

I.e if th temperature input is below 20, then you should give a “temperature is cold” output and so on.

****4. Login System:**** Create a simple login system. Ask the user to input a username and a password. If the username is "user123" and the password is "password123", print "Login successful." Otherwise, print "Login failed."

I.e in this case, you will have to create two input receivers, one for username and the other for password, then you evaluate and print your output messages accordingly.

****5. Number Comparison:**** Write a program that takes two numbers as input and determines which one is greater. If they are equal, print a message indicating that.

I.e this numbers should be received as inputs then evaluated.

****6. Eligibility Checker:**** Create a program that asks the user for their age and whether they are a student (yes or no). If the user is 18 or older and not a student, print "You are eligible." Otherwise, print "You are not eligible."

I.e you will make use of logical operators to evaluate your parameters.

****7. Voting Eligibility:**** Write a program that checks if a person is eligible to vote. The program should ask for the user's age and citizenship status (yes or no). If the person is at least 18 years old and is a citizen, print "You are eligible to vote." Otherwise, print "You are not eligible to vote."

I.e you will make use of logical operators to evaluate your parameters.

****8. Password Strength Checker:**** Write a program that asks the user to enter a password. Check the password for strength:

* Weak: Less than 8 characters
* Medium: 8 or more characters, containing both letters and numbers
* Strong: 8 or more characters, containing letters, numbers, and special characters.

(Nb: Special characters are characters like !@#$%^& etc. You can check online for the other special characters so you can evaluate effectively)

1. ****ATM Simulator:**** Create a simple ATM simulator. Ask the user for their account balance and the amount they want to withdraw. Check if the balance is sufficient for the withdrawal and display an appropriate message.

I.e if the amount they want to withdraw is higher than their balance, then you should print insufficient funds. In this case, you’ll create a variable containing the available balance, then you receive the amount they want to withdraw as an input, before you evaluate.

****10. Multiple Conditions:**** Write a program that asks the user for two numbers and an operation (addition, subtraction, multiplication, or division). Perform the operation and print the result based on the inputs.

NB: For all the tasks above, you will mostly use input statements, conditional statements and logical operators.

窗体顶端

窗体底端