

Course
JavaScript Programming Language and jQuery

Module 1

TOPIC: INTRODUCTION TO JAVASCRIPT

Task

You need to decide which branch operator it is better to use for which task: `if`, `switch`, or ternary.

1. Ask the user for their age and determine who they are: a child (0–12), a teenager (12–18), an adult (18–60), or a retiree (60–...).
2. Ask the user for a number from 0 to 9 and output a special character located on this key (1–!, 2–@, 3–#, and so on).
3. Ask the user for a three-digit number and check if it contains equal numbers.
4. Ask the user for a year and check whether it is a leap year or not. A leap year is either a multiple of 400 or 4, and not a multiple of 100.
5. Ask the user for a five-digit number and determine whether it is a palindrome.
6. Write a currency converter. The user enters the amount of USD, chooses to which currency they want to convert: EUR, UAN, or AZN and receives the corresponding amount in response.
7. Ask the user for the purchase amount and output the discount price: from 200 to 300 – the discount will be 3%, from 300 to 500 – 5%, from 500 and above – 7%.

8. Ask the user for circle length and square perimeter. Determine whether such a circle can fit into the specified square.
9. Ask the user 3 questions, each question has 3 answers. For each correct answer, 2 points are awarded. After the questions are over, output the number of scored points.
10. Ask for a date (day, month, year) and print the date following it. Consider the possibility of moving to the next month, year, and also a leap year.