

Exercise on JavaScript Fundamentals

1. Write a JavaScript program to find the area of a triangle where lengths of the three of its sides are 5, 6, 7.
2. Write a JavaScript program to compute the sum of the two given integers. If the two values are same, then returns triple their sum.
3. Write a JavaScript program to create a new string from a given string taking the last 3 characters and added at both the front and back. The string length must be 3 or more.
4. Write a JavaScript program to check the total marks of a student in various examinations. The student will get A+ grade if the total marks are in the range 89..100 inclusive, if the examination is "Final-exam." the student will get A+ grade and total marks must be greater than or equal to 90. Return true if the student get A+ grade or false otherwise.

Exercise on Controlling Flow

1. Write a JavaScript program that accept two integers and display the larger.
2. Write a JavaScript conditional statement to sort three numbers. Display an alert box to show the result.
3. Write a JavaScript for loop that will iterate from 0 to 15. For each iteration, it will check if the current number is odd or even, and display a message to the screen.

Sample Output :

"0 is even"

"1 is odd"

"2 is even"

4. Write a JavaScript program which compute, the average marks of the following students Then, this average is used to determine the corresponding grade.

Student Name Marks

David	80
Vinoth	77
Divya	88
Ishitha	95
Thomas	68

The grades are computed as follows:

Range	Grade
<60	F
<70	D
<80	C
<90	B
<100	A

5. According to Wikipedia a happy number is defined by the following process:

"Starting with any positive integer, replace the number by the sum of the squares of its digits, and repeat the process until the number equals 1 (where it will stay), or it loops endlessly in a cycle which does not include 1. Those numbers for which this process ends in 1 are happy numbers, while those that do not end in 1 are unhappy numbers (or sad numbers)".

Write a JavaScript program to find and print the first 5 happy numbers.

Assignment on JavaScript Objects

1. Write a JavaScript program to list the properties of a JavaScript object.

Sample object:

```
var student = {
  name : "David Rayy",
  sclass : "VI",
  rollno : 12 };
```

Sample Output: name,sclass,rollno

2. Write a JavaScript program to delete the rollno property from the following object. Also print the object before or after deleting the property.

Sample object:

```
var student = {  
  name : "David Rayy",  
  sclass : "VI",  
  rollno : 12 };
```