

## Answer

1) Write a program that allow to user enter number then printit

Example

Input: 5

Output: 5

### Answer

```
var number = 5;  
console.log("Output:", number);
```

2) Write a program that take number from user then print yes if that number can divide by 3

and 4 otherwise print no

Example1

Input: 12 Output Yes

Example 2

Input: 9 Output No

### Answer

```
var number = 12;  
  
if (number % 3 === 0 && number % 4 === 0) {  
    console.log("Yes");  
} else {  
    console.log("No");  
}
```

3)

Write a program that allows the user to insert 2 integers then print the max

Example1

Input: 3 5

Output: 5

Example 2

Input: 10 7

Output: 10

### Answer

```
var num1 = 3;
```

```
var num2 = 5;
```

```
if (num1 > num2) {  
    console.log(num1);  
} else {  
    console.log(num2);  
}
```

.....

```
var num1 =10 ;
```

```
var num2 = 7;
```

```
if (num1 > num2) {  
    console.log(num1);  
} else {  
    console.log(num2);  
}
```

4) Write a program that allows the user to insert an integer then print negative if it is

negative number otherwise print positive.

Example 1

Input: -5

Output negative

Example2

Input: 10

Output positive

Answer

```
var number = -5;
```

```
if (number < 0) {  
    console.log("negative");  
} else {  
    console.log("positive");  
}
```

.....

```
var number = 10;
```

```
if (number < 0) {  
    console.log("negative");  
} else {  
    console.log("positive");  
}
```

5- Write a program that take 3 integers from user then print the max element

and the min element.

**Example 1**

**Input: 7,8,5**

**Output:**

**max element = 8**

**min element = 5**

**Example2**

**Input: 3 6 9**

**Outputs:**

**Max element = 9**

**Min element = 3**

**Answer**

**var a = 7;**

**var b = 8;**

**var c = 5;**

**var max = Math.max(a, b, c);**

**var min = Math.min(a, b, c);**

**console.log("max element =", max);**

**console.log("min element =", min);**

**6- Write a program that allows the user to insert integer number then check If a number is even or odd**

**Example 1**

**Input: 8**

**Output: even**

**Example 2**

**Input: 7**

Output: odd

Answer

```
var number = 8;

if (number % 2 === 0) {
  console.log("even");
} else {
  console.log("odd");
}
```

8- Write a program that take character from user then if it is vowel chars (a,e,i,o,u)

then print vowel otherwise print consonant

Example1

Input: O

Output: vowel

Example 2

Input: b

Output:

Consonant

Answer

```
var char = 'O';
char = char.toLowerCase();

if (char === 'a' || char === 'e' || char === 'i' || char === 'o' || char === 'u') {
  console.log("vowel");
} else {
  console.log("consonant");
}
```

9- Write a program that allows user to insert integer then print all numbers between 1 to that's number

Example Input 5

Output 1, 2, 3, 4, 5

Answer

```
var number = 5;

for (var i = 1; i <= number; i++) {
  console.log(i);
}
```

10- Write a program that allows user to insert integer then print a multiplication table up to 12.

Example

Input: 5

Outputs:

5 10 15 20 25 30 35 40 45 50 55 60

Answer

```
var number = 5;

for (var i = 1; i <= 12; i++) {
  console.log(number * i);
}
```

11- Write a program that allows user to insert number then print all even numbers

between 1 to this number

Example:

Input: 15

Output: 2 4 6 8 10 12 14

Answer

var number = 15;

for (var i = 1; i <= number; i++) {

  if (i % 2 === 0) {

    console.log(i);

  }

}

12- Write a program that takes two integers then prints the power

Example:

Input: 4 3

Output: 64

Hint how to calculate  $4^3 = 4 * 4 * 4 = 64$

Answer

var base = 4;

var power = 3;

var result = 1;

for (var i = 1; i <= power; i++) {

  result \*= base;

}

console.log(result);

12- Write a program to enter marks of five subjects and calculate total, average and

percentage.

Example

**Input: - Enter Marks of five subjects:**

95

76

58

90

89

**Output:- Total marks = 435**

**Average Marks = 87**

**Percentage = 87**

### Answer

var s1 = 95;

var s2 = 76;

var s3 = 58;

var s4 = 90;

var s5 = 89;

var total = s1 + s2 + s3 + s4 + s5;

var average = total / 5;

var percentage = average;

console.log("Total marks =", total);

console.log("Average marks =", average);

console.log("Percentage =", percentage);

**13-Write a program to input month number and print number of days in that**

**month.**

**Example:**



Input: - Month Number: 1

Output:-. Days in Month: 31

Answer

```
var month = 1;
```

```
if (month === 1 || month === 3 || month === 5 || month === 7 || month === 8 || month === 10 || month === 12) {
```

```
    console.log("Days in Month: 31");
```

```
} else if (month === 4 || month === 6 || month === 9 || month === 11) {
```

```
    console.log("Days in Month: 30");
```

```
} else if (month === 2) {
```

```
    console.log("Days in Month: 28 or 29");
```

```
} else {
```

```
    console.log("Invalid month number");
```

```
}
```

14- Write a program to input marks of five subjects

Physics, Chemistry, Biology, Mathematics and Computer

, Find percentage and grade

Percentage  $\geq$  90%: Grad A

Percentage  $\geq$  80%: Grad B

Percentage  $\geq$  70%: Grad C

Percentage  $\geq$  60%: Grad D

Percentage  $\geq$  40%: Grad E

Percentage  $<$  40%: Grad F

Answer

```
var physics = 95;
```

```
var chemistry = 85;
```

```
var biology = 74;
```

```
var math = 80;
```

```
var computer = 90;

var total = physics + chemistry + biology + math + computer;
var percentage = total / 5;
var grade;

if (percentage >= 90) {
    grade = "A";
} else if (percentage >= 80) {
    grade = "B";
} else if (percentage >= 70) {
    grade = "C";
} else if (percentage >= 60) {
    grade = "D";
} else if (percentage >= 40) {
    grade = "E";
} else {
    grade = "F";
}

console.log("Percentage =", percentage);
console.log("Grade =", grade);
```

#### Using switch case

15- Write a program to print total number of days in month

Answer

```
var month = 2;

switch (month) {
```

```
case 1:
case 3:
case 5:
case 7:
case 8:
case 10:
case 12:
    console.log("Days in Month: 31");
    break;
case 4:
case 6:
case 9:
case 11:
    console.log("Days in Month: 30");
    break;
case 2:
    console.log("Days in Month: 28 or 29");
    break;
default:
    console.log("Invalid month number");
}
```

16- Write a program to check whether an alphabet is vowel or consonant

Answer

```
var ch = 'A';
ch = ch.toLowerCase();

switch (ch) {
    case 'a':
```

```
case 'e':  
case 'i':  
case 'o':  
case 'u':  
    console.log("vowel");  
    break;  
default:  
    console.log("consonant");  
}
```

**17- Write a program to find maximum between two numbers**

**Answer**

```
var a = 10;  
var b = 7;  
  
switch (true) {  
    case (a > b):  
        console.log(a);  
        break;  
    default:  
        console.log(b);  
}
```

**18- Write a program to check whether a number is even or odd**

**Answer**

```
var number = 8;  
  
switch (number % 2 === 0) {  
    case true:  
        console.log("even");  
        break;
```

default:

```
    console.log("odd");  
}
```

19- Write a program to check whether a number is positive or negative or zero

Answer

```
var number = -5;
```

```
switch (true) {  
    case (number > 0):  
        console.log("positive");  
        break;  
    case (number < 0):  
        console.log("negative");  
        break;  
    default:  
        console.log("zero");  
}
```

20- Write a program to create Simple Calculator

Answer

```
var num1 = 10;  
var num2 = 5;  
var operator = '+';  
  
switch (operator) {  
    case '+':  
        console.log(num1 + num2);  
        break;  
    case '-':  
        console.log(num1 - num2);
```

```
        break;
    case '*':
        console.log(num1 * num2);
        break;
    case '/':
        console.log(num1 / num2);
        break;
    default:
        console.log("Invalid operator");
}
```