**Program 1**

<html>

<head>

<title>variables in javascript</title>

**Output:**

addition of 2 and 3,  
the result is : 5

</head>

<body>

<script type="text/javascript">

var a, b, c;

var string;

a = 3;

b = 2;

c = a + b;

string = "the result is : ";

document.write("addition of 2 and 3," + "</br>");

document.write(string);

document.write(c);

</script>

</body>

</html>

document.write("</br>x / y is ");

z = x / y;

document.write(z);

</script>

</body>

</html>

|  |
| --- |
| **Output:**  x = 50 y = 10 x + y is 60 x - y is 40 x \* y is 500 x / y is 5 |

**Program 2**

<html>

<head>

<title>Math Operations</title>

</head>

<body>

<script type="text/javascript">

var x, y, z;

x = 50;

y = 10;

document.write("x = ");

document.write(x + " ");

document.write("y = ");

document.write(y);

document.write("</br>x + y is ");

z = x + y;

document.write(z);

document.write("</br>x - y is ");

z = x - y;

document.write(z);

document.write("</br>x \* y is ");

z = x \* y;

document.write(z);

**Program 3**

<html>

<head>

<title>If Else Demo</title>

</head>

<body>

<script type="text/javascript">

**Output:**

**c is the largest number**

var a, b, c;

a = 10;

b = 20;

c = 30;

if (a < b) {

if (a > c) {

document.write("<h3>a is the largest number</h3>");

} else {

document.write("<h3>c is the largest number</h3>");

}

} else {

if (b > c) {

document.write("<h3>b is the largest number</h3>");

} else {

document.write("<h3>c is the largest number</h3>");

}

}

</script>

</body>

</html>

**Program 4**

} else if (marks >= 60 && marks < 66) {

document.write("you have got a first class");

} else {

document.write("you have got distiction");

}

</script>

</body>

</html>

|  |
| --- |
| **Output:**  you have got distiction |

<html>

<head>

<title>If Else Demo 2</title>

</head>

<body>

<script type="text/javascript">

var marks = 75;

if (marks < 40) {

document.write("you have failed.");

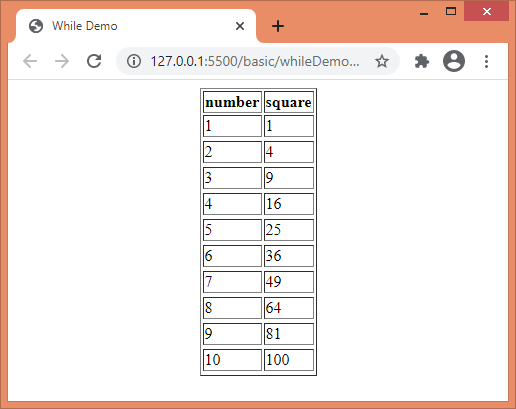
} else if (marks >= 40 && marks < 50) {

document.write("you have passed ");

} else if (marks >= 50 && marks < 60) {

document.write("you have got a second class");

**Program 5**

<html lang="en">

<head>

<title>While Demo</title>

</head>

<body>

<table border="1" align="center">

<th>number</th>

<th>square</th>

<script type="text/javascript">

i = 1;

while (i <= 10) {

document.write("<tr><td>" + i + "</td><td>" + i \* i + "</td><tr>");

i++;

}

</script>

</table>

</body>

</html>

**Program 6**

**Output:**

Enter the first number:

4

Enter the second number:

5

**b is largest number.**

<html >

<head>

<title>largestNumber</title>

</head>

<body>

<script type="text/javascript">

var a = prompt("Enter the first number: ");

var b = prompt("Enter the second number: ");

if (a > b) document.write("a is largest number.");

if (b > a) document.write("b is largest number.");

</script>

</body>

</html>

**Program 7**

<html >

<head>

**Output:**

Enter the first number:

4

Enter the second number:

5

**b is largest number.**

<title>largestNumber</title>

</head>

<body>

<script type="text/javascript">

var a = prompt("Enter the first number: ");

var b = prompt("Enter the second number: ");

if (a > b)

document.write("a is largest number.");

else

document.write("b is largest number.");

</script>

</body>

</html>

**Program 8**

<html>

<head> <title>largestNumber</title></head>

**Output:**

Enter the first number:

4

Enter the second number:

5

Enter the third number:

6

c is the largest number

<body>

<script type="text/javascript">

var a = prompt("Enter the first number: ");

var b = prompt("Enter the second number: ");

var c = prompt("Enter the third number");

if (a < b) {

if (a > c) {

document.write("a is the largest number");

} else {

document.write("c is the largest number");

}

} else {

if (b > c) {

document.write("b is the largest number");

} else {

document.write("c is the largest number");

} }

</script>

</body>

</html>

|  |  |  |  |
| --- | --- | --- | --- |
| **Program 9**  <html>  <head>  <title>Document</title>  </head>  <body>  <script type="text/javascript">  var avg = prompt("Enter average marks");  if (avg >= 80) {  document.write("Honours");  } else if (avg >= 60 && avg < 80) {  document.write("first division ");  } else if (avg >= 50 && avg < 60) {  document.write("second division");  } else if (avg >= 40 && avg < 50) {  document.write("third division");  } else {  document.write("fail"); }  </script>  </body>  </html>   |  | | --- | | **Output:**  Enter average marks  60  first division | | **Program 10**  <html>  <head>  <title>arithmetic operation</title>  </head>  <body>  <script type="text/javascript">  var a, b, c, ch;  a = parseInt(prompt("Enter the first number : "));  b = parseInt(prompt("Enter the second number : "));  ch = parseInt(prompt("Enter the choice...."));  switch (ch) {  case 1:  c = a + b;  document.write("Addition =" + c);  break;  case 2:  c = a - b;  document.write("subtraction =" + c);  break;  case 3:  c = a \* b;  document.write("Multiplication =" + c);  break;  case 4:  c = a / b;  document.write("Division =" + c);  break;  default:  document.write("Invalid choice");  }  </script>  </body>  </html>   |  | | --- | | **Output:**  Enter the first number :  5  Enter the second number :  4  Enter the choice....  1  Addition = 9 | |

|  |  |  |  |
| --- | --- | --- | --- |
| **Program 11**  <html>  <head>  <title>factorial</title>  </head>  <body>  <script>  var n,  i = 1,  f = 1;  n = parseInt(prompt("Enter number: "));  while (i <= n) {  f = f \* i;  i++;  }  document.write("factorial=" + f);  </script>  </body>  </html>   |  | | --- | | **Output:**  Enter number:  6  factorial=720 | | **Program 12**  <html>  <head>  <title>factorial</title>  </head>  <body>  <script>  var n,  i = 1,  f = 1;  n = parseInt(prompt("Enter number: "));  do {  f = f \* i;  i++;  } while (i <= n);  document.write("factorial=" + f);  </script>  </body>  </html>   |  | | --- | | **Output:**  Enter number:  6  factorial=720 | |

|  |  |  |
| --- | --- | --- |
| **Program 12**  <html>  <head>  <title>multiplication table</title>  </head>  <body>  <script>  var i, j, x;  for (i = 1; i <= 5; i++) {  for (j = 1; j <= 5; j++) {  x = i \* j;  document.write(x + "\t");  }  document.write("<br/>");  }  </script>  </body>  </html> | |  | | --- | | **Output:**  1 2 3 4 5 2 4 6 8 10 3 6 9 12 15 4 8 12 16 20 5 10 15 20 25 | |