

Javascript Handbook

1. Program to print hello world on output screen

```
<script language='javascript'>
document.write("hello world");
</script>
```

2. Program to declare a variable and give its value as 10

```
<script language='javascript'>
var a;
a=10;
document.write("value of a is " + a);
</script>
```

3. Program to declare two variables and print their values

```
<script language='javascript'>
var a,b;
a=10;
b=20;
document.write("value of a is " + a);
document.write("value of b is " + b);
</script>
```

4. Program to declare two variables and find their sum

```
<script language='javascript'>
var a,b,sum;
a=10;
b=20;
sum=a+b;
document.write("sum of a and b is " + sum);
</script>
```

5. Program to declare two variables and find their difference

```
<script language='javascript'>
var a,b,diff;
a=100;
b=20;
diff=a-b;
document.write("difference of a and b is " + diff);
</script>
```

6. Program to declare two variables and find their sum

```
<script language='javascript'>
```

```
var a,b,product;
a=10;
b=20;
product=a*b;
document.write("product of a and b is " + product);
</script>
```

7. Program to declare two variables and find their quotient

```
<script language='javascript'>
var a,b,quo;
a=100;
b=20;
quo=a/b;
document.write("quotient of a and b is " + quo);
</script>
```

8. Program to declare two variables and find their remainder

```
<script language='javascript'>
var a,b,remainder;
a=100;
b=20;
remainder=a%b;
document.write("remainder of a and b is " + remainder);
</script>
```

9. Program to declare a variable that can hold decimal point value

```
<script language='javascript'>
var a;
a=100.65;
document.write("decimal point value is " + a);
</script>
```

10. Program to declare a variable that can hold a character

```
<script language='javascript'>
var ch='v';
document.write("value in ch is " + ch);
</script>
```

11. Program to add two decimal point numbers

```
<script language='javascript'>
var a=1.23;
var b=2.34;
var c;
c=a+b;
```

```
document.write("sum of two decimal point values is " + c);  
</script>
```

12. Program to subtract two decimal point numbers

```
<script language='javascript'>  
var a=10.23;  
var b=2.34;  
var c;  
c=a-b;  
document.write("difference of two decimal point values is " + c);  
</script>
```

13. Program to find product of two decimal point numbers

```
<script language='javascript'>  
var a=10.23;  
var b=2.34;  
var c;  
c=a*b;  
document.write("product of two decimal point values is " + c);  
</script>
```

14. Program to find simple interest

```
<script language='javascript'>  
var p,r,t,si;  
p=1000;  
r=3;  
t=5;  
si=(p*r*t)/100;  
document.write("simple interest is " + si);  
</script>
```

15. Program to find area of rectangle

```
<script language='javascript'>  
var l,b,area;  
l=10;  
b=20;  
area=l*b;  
document.write("area of rectangle is " + area);  
</script>
```

16. Program to find perimeter of rectangle

```
<script language='javascript'>  
var l,b,perimeter;  
l=10;
```

```
b=20;
perimeter=2*(l+b);
document.write("perimeter of rectangle is " + perimeter);
</script>
```

17. Program to find area of square

```
<script language='javascript'>
var side,area;
side=10;
area=side*side;
document.write("area of square is " + area);
</script>
```

18. Program to find perimeter of square

```
<script language='javascript'>
var side,perimeter;
side=10;
perimeter=4*side;
document.write("perimeter of square is " + perimeter);
</script>
```

19. Program to find area of right angled triangle

```
<script language='javascript'>
var base,height,area;
base=10;
height=5;
area=0.5*base*height;
document.write("area of right angled triangle is " + area);
</script>
```

20. Program to find area of circle

```
<script language='javascript'>
var radius,area;
radius=10;
area=3.14*radius*radius;
document.write("area of circle is " + area);
</script>
```

21. Program to find circumference of circle

```
<script language='javascript'>
var radius,cr;
radius=10;
cr=2*3.14*radius;
document.write("circumference of circle is " + cr);
```

</script>

22. Program to demonstrate increment operator (++)

```
<script language='javascript'>
var a;
a=10;
document.write("value of a is " + a);
a++;
document.write("value of a after applying increment operator is " + a);
</script>
```

23. Program to demonstrate decrement operator (–)

```
<script language='javascript'>
var a;
a=10;
document.write("value of a is " + a);
a--;
document.write("value of a after applying decrement operator is " + a);
</script>
```

24. Program to initialize a variable

```
<script language='javascript'>
var a=10;
document.write("value of a is " + a);
</script>
```

25. Program to demonstrate short hand assignment operator (+=)

```
<script language='javascript'>
var a=10;
document.write("value of a is " + a);
a+=2;
document.write("value of a after applying += operator is " + a);
</script>
```

26. Program to demonstrate short hand assignment operator (–=)

```
<script language='javascript'>
var a=10;
document.write("value of a is " + a);
a-=2;
document.write("value of a after applying -= operator is " + a);
</script>
```

27. Program to demonstrate short hand assignment operator (*=)

```
<script language='javascript'>
var a=10;
document.write("value of a is " + a);
a*=2;
document.write("value of a after applying *= operator is " + a);
</script>
```

28. Program to demonstrate short hand assignment operator (/=)

```
<script language='javascript'>
var a=10;
document.write("value of a is " + a);
a/=2;
document.write("value of a after applying /= operator is " + a);
</script>
```

29. Program to demonstrate short hand assignment operator (%=)

```
<script language='javascript'>
var a=10;
document.write("value of a is " + a);
a%=2;
document.write("value of a after applying %= operator is " + a);
</script>
```

30. Program to calculate 10 percent discount

```
<script language='javascript'>
var price,discount;
price=1000;
discount=0.1*price;
document.write("10% discount is " + discount);
</script>
```

31. Program to calculate volume of box

```
<script language='javascript'>
var w,d,h,vol;
w=10;
d=20;
h=30;
vol=w*d*h;
document.write("volume of box is " + vol);
</script>
```

32. Program to demonstrate ternary operator or conditional operator

```
<script language='javascript'>
var marks,result;
```

```
marks=75;
result=(marks>=40?'p':'f');
document.write("result is " + result);
</script>
```

33. Program to declare constant using const keyword

```
<script language='javascript'>
const pi=3.14;
var area;
area=pi*10*10;
document.write("area of circle is " + area);
</script>
```

34. Program to declare a boolean value

```
<script language='javascript'>
var a=true;
document.write("value of a is " + a);
</script>
```

35. Program to check whether value of a is 10, example of if statement

```
<script language='javascript'>
var a;
a=10;
if(a==10)
{
document.write("value of a is 10");
}
</script>
```

36. Program to check whether a is greater than 10 or not

```
<script language='javascript'>
var a;
a=100;
if(a>10)
{
document.write("value of a is greater than 10");
}
</script>
```

37. Program to check whether a is less than 10 or not

```
<script language='javascript'>
var a;
a=1;
if(a<10)
```

```
{  
document.write("value of a is less than 10");  
}  
</script>
```

38. Program to check whether value of a is less than 10 or not

```
<script language='javascript'>  
var a;  
a=1;  
if(a<=10)  
{  
document.write("value of a is less than or equal to 10");  
}  
</script>
```

39. Program to check whether value of a is greater than 10 or not

```
<script language='javascript'>  
var a;  
a=11;  
if(a>=10)  
{  
document.write("value of a is greater than or equal to 10");  
}  
</script>
```

40. Program to check whether value of a is not equal to 10

```
<script language='javascript'>  
var a;  
a=11;  
if(a!=10)  
{  
document.write("value of a is not equal to 10");  
}  
</script>
```

41. Program to check whether a is equal to 10 or not using if else statement

```
<script language='javascript'>  
var a;  
a=11;  
if(a==10)  
{  
document.write("value of a is equal to 10");  
}  
else  
{
```



```
document.write("value of a is not equal to 10");
}
</script>
```

42. Program to check whether value of a is greater than 10 or not using if else statement

```
<script language='javascript'>
var a;
a=11;
if(a>10)
{
document.write("value of a is greater than 10");
}
else
{
document.write("value of a is less than or equal to 10");
}
</script>
```

43. Program to check whether value of a is less than 10 or not using if else statement

```
<script language='javascript'>
var a;
a=11;
if(a<10)
{
document.write("value of a is less than 10");
}
else
{
document.write("value of a is greater than or equal to 10");
}
</script>
```

44. Program to check whether a is equal to 10 or not using if else statement

```
<script language='javascript'>
var a;
a=11;
if(a!=10)
{
document.write("value of a is not equal to 10");
}
else
{
document.write("value of a is equal to 10");
}
</script>
```

45. Program to check whether a is greater than or less than or equal to 10 using if else statement

```
<script language='javascript'>
var a;
a=11;
if(a>10)
{
document.write("value of a is greater than 10");
}
else
{
document.write("value of a is less than or equal to 10");
}
</script>
```

46. Program to check whether a is less than or equal to 10 or greater than 10

```
<script language='javascript'>
var a;
a=11;
if(a<10)
{
document.write("value of a is less than 10");
}
else
{
document.write("value of a is greater than or equal to 10");
}
</script>
```

47. Program to find largest of three numbers

```
<script language='javascript'>
var a,b,c,max;
a=11;
b=10;
c=13;
max=a;
if(b>max)
{
max=b;
}
if(c>max)
{
max=c;
}
document.write("largest number is " + max);
</script>
```

48. Program to find smallest of three numbers

```
<script language='javascript'>
var a,b,c,min;
a=11;
b=10;
c=13;
min=a;
if(b<min)
{
min=b;
}
if(c<min)
{
min=c;
}
document.write("smallest number is " + min);
</script>
```

49. Program to check whether marks are between 80 and 90 using and (&&) operator

```
<script language='javascript'>
var marks;
marks=85;
if((marks>=80) && (marks<=90))
{
document.write("marks are between 80 and 90");
}
else
{
document.write("marks are not between 80 and 90");
}
</script>
```

50. Program to check whether marks are equal to 80 or 90 using (||) or operator

```
<script language='javascript'>
var marks;
marks=80;
if((marks==80) || (marks==90))
{
document.write("marks are either equal to 80 or 90");
}
</script>
```

51. Program to check whether user has entered a or b

```
<script language='javascript'>
var ch;
```

```
ch='a';
if((ch=='a') || (ch=='b'))
{
document.write("you entered either a or b");
}
else
{
document.write("you have not entered a or b");
}
</script>
```

52. Program to calculate grade of student

```
<script language='javascript'>
var marks;
var grade;
marks=75;
if((marks>=80) && (marks<=100))
{
grade='a';
}
else if((marks>=70) && (marks<80))
{
grade='b';
}
else if((marks>=60) && (marks<70))
{
grade='c';
}
else
{
grade='d';
}
document.write("Grade is " + grade);
</script>
```

53. Program to check whether number is even or odd

```
<script language='javascript'>
var a;
a=10;
if(a%2==0)
{
document.write("Number is even");
}
else
{
document.write("Number is odd");
}
}
```

</script>

54. Program to check whether number 1 is divisible by number 2 or not

```
<script language='javascript'>
var a,b;
a=10;
b=5;
if(a%b==0)
{
document.write("Number 1 is divisible by Number 2");
}
else
{
document.write("Number 1 is not divisible by Number 2");
}
</script>
```

55. Program to check whether user has entered vowel or not

```
<script language='javascript'>
var ch;
ch='a';
if((ch=='a') || (ch=='e') || (ch=='i') || (ch=='o') || (ch=='u'))
{
document.write("you entered a vowel");
}
else
{
document.write("you have not entered a vowel");
}
</script>
```

56. Program to calculate discount based on price if price is greater than 1000 discount is 10% else 5%

```
<script language='javascript'>
var price,discount;
price=2000;
if(price>=1000)
{
discount=0.1*price;
}
else
{
discount=0.05*price;
}
document.write("discount is " + discount);
</script>
```

57. Program to demonstrate switch case statement to find day in words based on day in number

```
<script language='javascript'>
var day;
day=4;
switch(day)
{
case 1:
document.write("Monday");
break;
case 2:
document.write("tuesday");
break;
case 3:
document.write("wednesday");
break;
case 4:
document.write("thursday");
break;
case 5:
document.write("friday");
break;
case 6:
document.write("saturday");
break;
case 7:
document.write("sunday");
break;
default:
document.write("enter a day between 1 and 7");
}
</script>
```

58. Program to demonstrate switch case statement to find month in words based on month in numbers

```
<script language='javascript'>
var month;
month=4;
switch(month)
{
case 1:
document.write("january");
break;
case 2:
document.write("february");
break;
case 3:
document.write("march");
```

```

        break;
    case 4:
        document.write("april");
        break;
    case 5:
        document.write("may");
        break;
    case 6:
        document.write("june");
        break;
    case 7:
        document.write("july");
        break;
    case 8:
        document.write("august");
        break;
    case 9:
        document.write("september");
        break;
    case 10:
        document.write("october");
        break;
    case 11:
        document.write("november");
        break;
    case 12:
        document.write("december");
        break;
    default:
        document.write("enter a month between 1 and 12");
    }
</script>

```

59. Program to find da, hra and net salary based on basic salary

```

<script language='javascript'>
var basic,hra,da,netsal;
basic=5000;
if(basic<=2500)
{
    hra=0;
    da=0;
}
else if((basic>=2500) && (basic<4000))
{
    hra=0.2*basic;
    da=0.15*basic;
}
else if((basic>=4000) && (basic<8000))

```

```

    {
        hra=0.25*basic;
        da=0.2*basic;
    }
else
    {
        hra=0.3*basic;
        da=0.25*basic;
    }
    netsal=basic+hra+da;
    document.write("hra is " + hra);
    document.write("da is " + da);
    document.write("net salary is " + netsal);

```

</script>

60. Program to convert temperature from celsius to fahrenheit and vice versa based on user's choice using if else statement

```

<script language='javascript'>
var choice;
var temp,conv;

choice=2;
if(choice==1)
{
    temp=90;
    conv=(temp-32)/1.8;
    document.write("temperature in celsius is " + conv);
}
else
{
    temp=40;
    conv=(1.8*temp)+32;
    document.write("temperature in fahrenheit is " + conv);
}

```

</script>

61. Program to convert temperature from celsius to fahrenheit and vice versa based on user's choice using switch case statement

```

<script language='javascript'>
var choice;
var temp,conv;
choice=1;
switch(choice)
{
case 1:

```



```

temp=90;
conv=(temp-32)/1.8;
document.write("temperature in celsius is " + conv);
break;
case 2:
temp=40;
conv=(1.8*temp)+32;
document.write("temperature in fahrenheit is " + conv);
break;
default: document.write("enter choice 1 or 2 ");
}

```

</script>

62. Program to check whether user has entered vowel or not using switch case statement

```

<script language='javascript'>
var ch;
ch='e';
switch(ch)
{
case 'a':
document.write("you entered a vowel");
break;
case 'e':
document.write("you entered a vowel");
break;
case 'i':
document.write("you entered a vowel");
break;
case 'o':
document.write("you entered a vowel");
break;
case 'u':
document.write("you entered a vowel");
break;
default:
document.write("enter a vowel (a,e,i,o,u)");
}

```

</script>

63. Program to find year is leap year or not

```

<script language='javascript'>
var year;
year=2001;

```

```
if((year%100==0) || (year%400==0))
{
    document.write("leap year");
}
else
{
    if(year%4==0)
    {
        document.write("leap year");
    }
    else
    {
        document.write("not a leap year");
    }
}
</script>
```

64. Program to print numbers from 0 to 9 using for statement

```
<script language='javascript'>
var i;
for(i=0;i<10;i++)
{
    document.write(i);
}
</script>
```

65. Program to print numbers from 0 to 10 using for statement

```
<script language='javascript'>
var i;
for(i=0;i<=10;i++)
{
    document.write(i);
}
</script>
```

66. Program to print numbers from 9 to 0 using for statement in reverse order

```
<script language='javascript'>
var i;

for(i=9;i>=0;i--)
{
    document.write(i);
}
</script>
```

</script>

67. Program to print numbers from 10 to 0 in reverse order using for statement

```
<script language='javascript'>
var i;

    for(i=10;i>=0;i--)
    {
        document.write(i);
    }
```

</script>

68. Program to print numbers from 0 to 10 with a gap of 2 using for statement

```
<script language='javascript'>
var i;
    for(i=0;i<=10;i+=2)
    {
        document.write(i);
    }
```

</script>

69. Program to print numbers from 0 to 50 using for statement with a gap of 5

```
<script language='javascript'>
var i;

    for(i=0;i<=50;i+=5)
    {
        document.write(i);
    }
```

</script>

70. Program to print numbers from 50 to 5 using for statement with a gap of 5 in reverse order

```
<script language='javascript'>
var i;

    for(i=50;i>=5;i-=5)
    {
        document.write(i);
    }
```

</script>

71. Program to print sum of numbers from 1 to 10 using for statement

<script language='javascript'>

```
var i;
var sum=0;

for(i=1;i<=10;i++)
{
    sum=sum+i;
}
document.write("sum of numbers from 1 to 10 is " + sum);
```

</script>

72. Program to print sum of even numbers from 1 to 10 using for statement

<script language='javascript'>

```
var i;
var sumeven=0;

for(i=1;i<=10;i++)
{
    if(i%2==0)
    {
        sumeven=sumeven+i;
    }
}

document.write("sum of even numbers from 1 to 10 is " + sumeven);
```

</script>

73. Program to print sum of odd numbers from 1 to 10 using for statement

<script language='javascript'>

```
var i;
var sumodd=0;

for(i=1;i<=10;i++)
{
    if(i%2!=0)
    {
        sumodd=sumodd+i;
    }
}
```

```
}
```

```
document.write("sum of odd numbers from 1 to 10 is " + sumodd);
```

```
</script>
```

74. Program to print sum of even and odd numbers from 1 to 10 using for statement

```
<script language='javascript'>
```

```
var i;
```

```
var sumeven=0;
```

```
var sumodd=0;
```

```
for(i=1;i<=10;i++)
```

```
{
```

```
    if(i%2==0)
```

```
    {
```

```
        sumeven=sumeven+i;
```

```
    }
```

```
    else
```

```
    {
```

```
        sumodd=sumodd+i;
```

```
    }
```

```
}
```

```
document.write("sum of even numbers from 1 to 10 is " + sumeven);
```

```
document.write("sum of odd numbers from 1 to 10 is " + sumodd);
```

```
</script>
```

75. Program to print numbers between two numbers here 5 and 15 using for statement

```
<script language='javascript'>
```

```
var a,b;
```

```
var i;
```

```
a=5;
```

```
b=15;
```

```
for(i=a;i<=b;i++)
```

```
{
```

```
    document.write(i);
```

```
}
```

```
</script>
```

76. Program to print sum of numbers between two numbers here 5 and 15 using for statement

```
<script language='javascript'>
```

```
var a,b;
```

```
var i;
```

```
var sum=0;
```

```

a=5;
b=15;
for(i=a;i<=b;i++)
{
    sum=sum+i;
}
document.write("sum of numbers from a to b is " + sum);
</script>

```

77. Program to find factorial of number using for statement

```

<script language='javascript'>
var a;
    var i;
    var fact=1;
a=5;
for(i=1;i<=a;i++)
{
    fact=fact*i;
}
document.write("factorial of a is " + fact);
</script>

```

78. Program to check whether number is prime or not using for statement

```

<script language='javascript'>
var i;
    var a;
    var prime=1;
a=5;
for(i=2;i<=a/2;i++)
{
    if(a%i==0)
    {
        prime=0;
        break;
    }
}
if(prime==1)
{
    document.write("number entered is prime ");
}
else
{
    document.write("number entered is not prime");
}
</script>

```

79. Program to print first 11 terms of Fibonacci series using for statement

```
<script language='javascript'>

    var i;
    var a=1;
    var b=1;
    var c;
    document.write(a);
    document.write(b);
    for(i=2;i<=10;i++)
    {
        c=a+b;
        document.write(c);
        a=b;
        b=c;
    }
</script>
```

80. Program to print pattern of stars using for statement example of nested for loop

```
<script language='javascript'>
    var i,j;

    for(i=1;i<=5;i++)
    {
        for(j=1;j<=i;j++)
        {
            document.write("*");
        }
        document.write("<br>");
    }
</script>
```

81. Program to print table of number using for statement

```
<script language='javascript'>
var i,a;
    a=5;
    for(i=1;i<=10;i++)
    {
        document.write(i*a);
    }
</script>
```

82. Program to print numbers from 0 to 9 using while statement

```
<script language='javascript'>
```

```
var i;
    i=0;

    while(i<10)
    {
        document.write(i);
        i++;
    }
</script>
```

83. Program to print numbers from 1 to 10 using while statement

```
<script language='javascript'>
var i;
    i=1;

    while(i<=10)
    {
        document.write(i);
        i++;
    }
</script>
```

84. Program to print numbers from 1 to 9 with a gap of 2 using while statement

```
<script language='javascript'>
var i;
    i=1;

    while(i<=10)
    {
        document.write(i);
        i=i+2;
    }
</script>
```

85. Program to print factorial of number using while loop

```
<script language='javascript'>
var i=1;
    var a;
    var fact=1;
a=5;
    while(i<=a)
    {
        fact=fact*i;
        i++;
    }
    document.write("factorial of number is " + fact);
```


</script>

86. Program to print table of number using while statement

```
<script language='javascript'>
var i,a;
  a=3;
  i=1;
  while(i<=10)
  {
    document.write(a*i);
    i++;
  }
</script>
```

87. Program to print sum of numbers from 1 to 10 using while statement

```
<script language='javascript'>
var i;
  i=1;
  var sum=0;

  while(i<=10)
  {
    sum=sum+i;
    i++;
  }
  document.write("sum of numbers is " + sum);
</script>
```

88. Program to print sum of numbers between two numbers here 5 and 15 using while statement

```
<script language='javascript'>
var i,a,b,sum=0;
  a=5;
  b=15;
  i=a;
  while(i<=b)
  {
    sum=sum+i;
    i++;
  }
  document.write("sum of numbers between a and b is " + sum);
</script>
```

89. Program to print sum of even and odd numbers between two numbers here 5 and 15 using while statement

```
<script language='javascript'>
```

```

var a,b,i;
    var sumeven=0;
    var sumodd=0;
a=5;
b=15;
i=a;
while(i<=b)
{
    if(i%2==0)
    {
        sumeven=sumeven+i;
    }
    else
    {
        sumodd=sumodd+i;
    }
    i++;
}
document.write("sum of even numbers between a and b is " + sumeven);
document.write("sum of odd numbers between a and b is " + sumodd);
</script>

```

90. Program to check whether number is prime or not using while statement

```

<script language='javascript'>
    var i=2;
    var a;
    var prime=1;
a=5;
while(i<=a/2)
{
    if(a%i==0)
    {
        prime=0;
        break;
    }
    i++;
}
if(prime==1)
{
    document.write("number is prime ");
}
else
{
    document.write("number is not prime");
}
</script>

```

91. Program to print first 11 terms of Fibonacci series using while statement

```
<script language='javascript'>
var a,b,c,i;
    a=1;
    b=1;
    i=2;
    document.write(a);
    document.write(b);
    while(i<=10)
    {
        c=a+b;
        document.write(c);
        a=b;
        b=c;
        i++;
    }
</script>
```

92. Program to calculate hcf and lcm of two numbers using while statement

```
<script language='javascript'>
var a,b,c;
a=10;
b=5;
c=a*b;
while(a!=b)
{
    if(a>b)
        a=a-b;
    else
        b=b-a;
}
document.write("HCF = " + a);
document.write("<br>");
document.write("LCM = " + c/a);
</script>
```

93. Program to print numbers from 1 to 10 using do while statement

```
<script language='javascript'>

var i=1;

    do
    {
        document.write(i);
        i++;
    }while(i<=10);
```

</script>

94. Program to print 11 using do while statement

<script language='javascript'>

```
var i;
    i=11;
    do
    {
        document.write(i);
        i++;
    }while(i<=10);
```

</script>

95. Program to demonstrate break statement in for loop

<script language='javascript'>

```
var i;

    for(i=1;i<=10;i++)
    {
        if(i==5)
        {
            break;
        }
        document.write(i);
    }
```

</script>

96. Program to demonstrate break statement in while loop

<script language='javascript'>

```
var i=0;

    while(i<10)
    {
        if(i==5)
        {
            break;
        }
        document.write(i);
        i++;
    }
```

</script>

97. Program to demonstrate continue statement in for loop

```

<script language='javascript'>
var i;

    for(i=1;i<=10;i++)
    {
        if(i==5)
        {
            continue;
        }
        document.write(i);
    }

</script>

```

98. Program to find sum of digits of a number

```

<script language='javascript'>
var num,digit;
var sum=0;
num=121;
do
{
    digit=num%10;
    sum=sum+digit;
    num=num/10;
}while(num!=0);
sum=parseInt(sum);
document.write("the sum of digits is " + sum);

</script>

```

99. Program to count number of digits in a number

```

<script language='javascript'>
var num,digit;
var count=0;
num=1234;
do
{
    digit=num%10;
    num=parseInt(num/10);
    count++;
}while(num!=0);
document.write("the number of digits in the number are " + count);

</script>

```

100. Program to check whether number is palindrome 1221 is palindrome whereas 1234 is not a palindrome

```

<script language='javascript'>
  var n,num,digit,rev=0;
  num=1221;
  n=num;
  do
  {
    digit=num%10;
    rev=(rev*10)+digit;
    num=parseInt(num/10);
  }while(num!=0);
  document.write("the reverse of number is " + rev);
  if(n==rev)
  {
    document.write("number is palindrome");
  }
  else
  {
    document.write("number is not pelindrome");
  }
}
</script>

```

101. Porgram to find reverse of number using do while statement

```

<script language='javascript'>
var num,digit,rev=0;
  num=123;
  do
  {
    digit=num%10;
    rev=(rev*10)+digit;
    num=parseInt(num/10);
  }while(num!=0);
  document.write("the reverse of number is " + rev);
}
</script>

```

102. Program to print pattern of numbers using nested for loop

```

<script language='javascript'>

var n;
  var i,j;
  n=5;
  for(i=1;i<=n;i++)
  {
    for(j=1;j<=i;j++)
    {
      document.write(j);
    }
  }
}

```

```
        document.write("<br>");  
    }  
</script>
```

103. Program to find factorial of number using for loop with decrement operator

```
<script language='javascript'>  
  
var fact=1;  
    var n,i;  
    n=5;  
    for(i=n;i>=1;i--)  
    {  
        fact=fact*i;  
    }  
    document.write("factorial of number is " + fact);  
  
</script>
```

104. Program to print Hello there by creating a function and calling it

```
<script language='javascript'>  
  
    function sayHello() {  
        document.write("Hello there");  
    }  
    sayHello();  
  
</script>
```

105.