

1) Write a JavaScript program to print current date and time?

```
<!DOCTYPE html>

<html>

<head></head>

<body>

<h1>Current Date&Time</h1>

<p id="p1"></p>

<script>

    var date = new Date();

    document.getElementById("p1").innerHTML = date;

</script>

</body>

</html>
```

Output

Current Date&Time

Wed Jan 03 2024 14:30:15 GMT+0530 (India Standard Time)

2)Write a javascript program to calculate addition,subtraction,multiplication and division?

```
<html>
```

```
<head>
```

```
<center>
```

```
<script>
```

```
function add() {
```

```
    var a = parseInt(document.getElementById('a').value);
```

```
    var b = parseInt(document.getElementById('b').value);
```

```
    r = a + b;
```

```
    document.getElementById("result").innerHTML = a + " + " + b + " = " + r;
```

```
}
```

```
function sub() {
```

```
    var a = parseInt(document.getElementById('a').value);
```

```
    var b = parseInt(document.getElementById('b').value);
```

```
    r = a - b;
```

```
    document.getElementById("result").innerHTML = a + " - " + b + " = " + r;
```

```
}
```

```
function mul() {
```

```
    var a = parseInt(document.getElementById('a').value);
```

```
    var b = parseInt(document.getElementById('b').value);
```

```
    r = a * b;
```

```
    document.getElementById("result").innerHTML = a + " * " + b + " = " + r;
```

```
}
```

```

function div() {

    var a = parseInt(document.getElementById('a').value);

    var b = parseInt(document.getElementById('b').value);

    r = a / b;

    document.getElementById("result").innerHTML = a + " / " + b + " = " + r;

}

</script>
</head>
<body>

    <h1>Calculator</h1>

    <form>

        Enter number 1:

        <input type="text" id="a" /><br /><br>

        Enter number 2:

        <input type="text" id="b" /><br /><br>

        <input type="button" value="Add" onClick="add()" />&nbsp;

        <input type="button" value="Subtract" onClick="sub()" />&nbsp;

        <input type="button" value="Multiply" onClick="mul()" />&nbsp;

        <input type="button" value="Divide" onClick="div()" />&nbsp;

    </form>

    <p id="result"></p>

</center>

</body>

</html>

```

Output

Calculator

Enter number 1:

Enter number 2:

$4 + 3 = 7$

Calculator

Enter number 1:

Enter number 2:

$4 - 3 = 1$

Calculator

Enter number 1:

Enter number 2:

$4 * 3 = 12$

Calculator

Enter number 1:

Enter number 2:

$4 / 3 = 1.3333333333333333$

3)Write a javascript code the change the contents of an elements like header tag or paragraph tag or a division tag etc, when user clicks on it?

```
<!DOCTYPE html>

<html>

<head>

</head>

<body>

<h3> Javascript can change the content of an html element. </h3>

<p> Click the following text to see the effect. </p>

<p id = "para">Click me</p>

<script>

document.getElementById("para").onclick = function()

{

fun()

};

function fun()

{

    document.getElementById("para").innerHTML = "Smile Please ☺";

    document.getElementsByTagName("body")[0].style.color = "pink";

    document.getElementsByTagName("body")[0].style.backgroundColor = "blue";

    document.getElementsByTagName("body")[0].style.fontSize = "25px";

    document.getElementById("para").style.border = "4px solid red";

}

</script>
```

`</body>`

`</html>`

Output

Javascript can change the content of an html element.

Click the following text to see the effect.

Click me

Javascript can change the content of an html element.

Click the following text to see the effect.

Smile Please 😊

4) Create a registration form with attributes Name, Username, Password, Email_id, Phone Number and validate the Name and Username field as only having characters, validate Email_id and the Phone number with a length of 10?

```
<html>
```

```
<head>
```

```
<script>
```

```
function VALIDATION()
```

```
{
```

```
var name =
```

```
document.forms.RegForm.Name.value;
```

```
var email =
```

```
document.forms.RegForm.Email.value;
```

```
var phone =
```

```
document.forms.RegForm.Telephone.value;
```

```
var password =
```

```
document.forms.RegForm.Password.value;
```

```
var uname =
```

```
document.forms.RegForm.Username.value;
```

```
var regEmail=/^\w+([\.-]?\w+)*@\w+([\.-]?\w+)*(\.\w{2,3})+$/g; //Javascript  
reGex for Email Validation.
```

```
var regPhone=/^\d{10}$/g; // Javascript reGex for Phone  
Number validation.
```

```
var regName = /\d+$/g;
```

```
var regUName = /\d+$/g; // Javascript reGex for Name validation
```

```
if (name == "" || regName.test(name))
```

```

{
    window.alert("Please enter your name properly.");
    name.focus();
    return false;
}
if (uname == "" || regUName.test(uname))
{
    window.alert("Please enter your username properly.");
    uname.focus();
    return false;
}
if (email == "" || !regEmail.test(email))
{
    window.alert("Please enter a valid e-mail address.");
    email.focus();
    return false;
}
if (password == "")
{
    alert("Please enter your password");
    password.focus();
    return false;
}
if(password.length <6){

```



```

        alert("Password should be atleast 6 character long");

        password.focus();

        return false;
    }

    if (phone == "" || !regPhone.test(phone))
    {
        alert("Please enter valid phone number.");

        phone.focus();

        return false;
    }

    return true;
}

</script>

<style>
    div {
        box-sizing: border-box;

        width: 100%;

        border: 100px solid black;

        float: left;

        align-content: center;

        align-items: center;
    }

    form {
        margin: 0 auto;

```

width: 600px;

}

</style>

</head>

<body>

<h1 style="text-align: center;">REGISTRATION FORM</h1>

<form name="RegForm" onsubmit="return VALIDATION()" method="post">

<p>Name: <input type="text" size="65" name="Name" /></p>

<p>Username: <input type="text" size="65" name="Uname" /> </p>

<p>E-mail Address: <input type="text" size="65" name="EMail" /></p>

<p>Password: <input type="text" size="65" name="Password" /></p>

<p>Telephone: <input type="text" size="65" name="Telephone" /></p>

<p>

<input type="submit" value="Register" name="Submit" />

<input type="reset" value="Reset" name="Reset" />

</p>

</form>

</body>

</html>

Output

REGISTRATION FORM

Name:

Username:

E-mail Address:

Password:

Telephone:

Register

Reset

Combating Medicar...

This page says
Please enter your username properly.

OK

Name:

Username:

E-mail Address:

Password:

Telephone:

Register

Reset

Combating Medicar...

This page says
Please enter a valid e-mail address.

OK

Name:

Username:

E-mail Address:

Password:

Telephone:

Register

Reset

Combating Medicar...

This page says
Please enter your password

OK

Name:

Username:

E-mail Address:

Password:

Telephone:

Register

Reset

Combating Medicar...

This page says
Please enter valid phone number.

OK

Name:

Username:

E-mail Address:

Password:

Telephone:

Register

Reset