# KHAMIS SAID MOHD (BITAM/9/21/004/TZ)

GitHub Repository: https://github.com/khasamoh/Practical_session_4.git

**Question 1:**

qn1.html

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Form 1 </title>
    <link rel="stylesheet" href="style.css">
    <style>
        h1{
            text-align: center;
        }
        .containerP{
            width: 70%;
            margin: auto;
            padding: 10px;
            background-color: rgb(247, 244, 241);
        }
        td{padding-bottom: 10px;}
        table{width: 100%;}
        label{color: red;}
        input[type='text'],#email,#paswdVry,#paswd,#phone{
            width: 98%;
            height: 25px;
        }
    </style>
    <script>
        document.addEventListener('DOMContentLoaded',()=>{
                let red = document.querySelector("#red");
                let green = document.querySelector("#green");
                let blue = document.querySelector("#blue");
                let err_pref = document.querySelector("#err_pref");
                red.onchange = ()=>{
                    if(!(green.checked && blue.checked)){
                        err_pref.textContent = "Minimum Two colors should be
selected";
                    }else{err_pref.textContent ="";}
                }
                green.onchange = ()=>{
```

```javascript
                if(!(red.checked && blue.checked)){
                        err_pref.textContent = "Minimum Two colors should be
selected";
                }else{err_pref.textContent ="";}
            }
            blue.onchange = ()=>{
                if(!(green.checked && red.checked)){
                        err_pref.textContent = "Minimum Two colors should be
selected";
                }else{err_pref.textContent ="";}
            }

            //password verification
            paswdVry.onkeyup = ()=>{
                let paswdVry = document.querySelector("#paswdVry").value;
                let err_paswd = document.querySelector("#err_paswd");
                let paswd = document.querySelector("#paswd").value;
                if(paswdVry === paswd){
                    err_paswd.textContent ="";
                }else{
                    err_paswd.textContent = "Password and verify password
must match";
                }
            }
        document.querySelector("#submit").onclick = ()=>{
            let name = document.querySelector("#name").value;
            let err_name = document.querySelector("#err_name");
            let address = document.querySelector("#address").value;
            let err_address = document.querySelector("#err_address");

            let nameRegex = /^[a-zA-Z]+$/;
            if(name.length <= 20){
                if(!nameRegex.test(name)){
                    err_name.textContent = "Name should be only alphabets";
                }else{err_name.textContent ="";}
            }else{

                    err_name.textContent = "Name should not have a maximum of
20 characters";
                }
            }
        return false;
    });
</script>
</head>
```

```html
<body>
    <div class="containerP" style="width: 40%;">
        <h1>JavaScript Form Validation</h1>
        <hr>
        <form action="" method="post">
            <table>
                <tbody>
                    <tr>
                        <td>Name*</td>
                        <td><input type="text" id="name" required><br>
                            <label id="err_name"></label>
                        </td>
                    </tr>
                    <tr>
                        <td>Address*</td>
                        <td><input type="text" id="address" required><br>
                            <label id="err_address"></label>
                        </td>
                    </tr>
                    <tr>
                        <td>Zip Code*</td>
                        <td><input type="text" id="zipcode" required></td>
                    </tr>
                    <tr>
                        <td>Country*</td>
                        <td><Select id="country">
                            <option value="">Please select</option>
                            <option value="">Tanzania</option>
                            <option value="">Canada</option>
                            <option value="">India</option>
                        </Select></td>
                    </tr>
                    <tr>
                        <td>Gender*</td>
                        <td><input type="radio" name="gender" id="gender"
value="Male">Male
                            <input type="radio" name="gender" id="gender"
value="Female">Female</td>
                    </tr>
                    <tr>
                        <td>Preferences*</td>
                        <td><input type="checkbox" name="" id="red"
value="Red">Red
                            <input type="checkbox" name="" id="green"
value="Green">Green
```

```html
                                    <input type="checkbox" name="" id="blue"
value="Blue">Blue <br>
                                    <label id="err_pref"></label>
                                </td>
                            </tr>
                            <tr>
                                <td>Phone*</td>
                                <td><input type="tel" id="phone" required></td>
                            </tr>
                            <tr>
                                <td>Email*</td>
                                <td><input type="email" id="email" required></td>
                            </tr>
                            <tr>
                                <td>Password(6-8 characters)*</td>
                                <td><input type="Password" id="paswd" required></td>
                            </tr>
                            <tr>
                                <td>Verify Password*</td>
                                <td><input type="Password" id="paswdVry" required><br>
                                    <label id="err_paswd"></label>
                                </td>
                            </tr>
                            <tr>
                                <td></td>
                                <td><input type="submit" id="submit" value="SEND">
                                    <input type="reset" value="CLEAR"></td>
                            </tr>
                        </tbody>
                    </table>
                </form>
            </div>
        </body>
        </html>
```

## Question 2:

qn2.html

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Form 2 </title>
    <link rel="stylesheet" href="style.css">
    <style>
        h1{
            text-align: center;
        }
        .containerP{
            width: 70%;
            margin: auto;
            padding: 10px;
            background-color: rgb(247, 244, 241);
        }
        td{padding-bottom: 10px;}
        table{width: 100%;}
        label{color: red;}
        input[type='text'],#email,#paswdVry,#paswd,#phone{
            width: 98%;
            height: 25px;
        }
    </style>
</head>
<script>
    document.addEventListener('DOMContentLoaded',()=>{
            let temp = document.querySelector("#temp");
            let same = document.querySelector("#same");
            let perm = document.querySelector("#perm");
            perm.onkeyup = ()=>{
                if(perm.value.length >= 3){
                    same.onchange =()=>{
                        if(same.checked){
                            temp.value = perm.value;
                            temp.readOnly = true;
                        }else{
                            temp.value = "";
                            temp.readOnly = false;
                        }
```

```
                    }
                }
            }



        document.querySelector("#submit").onclick = ()=>{
            let name = document.querySelector("#name").value;
            let err_name = document.querySelector("#err_name");
            let phone = document.querySelector("#phone").value;
            let err_phone = document.querySelector("#err_phone");
            let regNo = document.querySelector("#regNo").value;
            let err_regNo = document.querySelector("#err_regNo")
            let err_address = document.querySelector("#err_address");

            let phoneRegex = /^\d{10}$/;
            if(!phoneRegex.test(phone)){
                err_phone.textContent = "Mobile number should be exactly 10
digits";
            }else{err_phone.textContent ="";}

            let regNoRegex = /^[a-zA-Z0-9]+$/;
            if(!regNoRegex.test(regNo)){
                err_regNo.textContent = "Register number should have alphabets
and numbers only";
            }else{err_regNo.textContent ="";}

            let nameRegex = /^[a-zA-Z]+$/;
            if(name.length <= 30){
                if(!nameRegex.test(name)){
                    err_name.textContent = "Name should be only alphabets";
                }else{err_name.textContent ="";}
            }else{

                err_name.textContent = "Name should not exceed 30
characters";
            }
        }

    });
</script>
<body>
    <div class="containerP" style="width: 40%;">
        <h1>Student Registration Form</h1>
        <hr>
```

```html
<form action="" method="post">
    <table>
        <tbody>
            <tr>
                <td>Name*</td>
                <td><input type="text" id="name" required><br>
                    <label id="err_name"></label>
                </td>
            </tr>
            <tr>
                <td>Reg.No</td>
                <td><input type="text" id="regNo" required><br>
                    <label id="err_regNo"></label>
                </td>
            </tr>
            <tr>
                <td>DOB</td>
                <td><input type="date" id="dob" required><br>
                    <label id="err_dob"></label>
                </td>
            </tr>
            <tr>
                <td>Program</td>
                <td><input type="text" id="program" required>
                </td>
            </tr>
            <tr>
                <td>Email*</td>
                <td><input type="email" id="email" required></td>
            </tr>
            <tr>
                <td>Permanent Address*</td>
                <td>
                    <input type="text"  name="" id="perm" required>
                </td>
            </tr>
            <tr>
                <td>Temporary Address</td>
                <td>
                    <input type="text" name="" id="temp"><br><br>
                    <input type="checkbox" name="" id="same"
value="Permanent address is same as temporary address">Permanent address is same
as temporary address
                </td>
            </tr>
```

```
                <tr>
                    <td>Phone*</td>
                    <td><input type="tel" id="phone" required><br>
                        <label id="err_phone"></label>
                    </td>
                </tr>
                <tr>
                    <td></td>
                    <td><input type="button" id="submit" value="SEND">
                        <input type="reset" value="CLEAR"></td>
                </tr>
            </tbody>
        </table>
    </form>
  </div>
</body>
</html>
```

## Question 3:

qn3.html

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Regular Expression </title>
    <link rel="stylesheet" href="style.css">
    <style>
        h1{
            text-align: center;
        }
        .containerP{
            width: 70%;
            margin: auto;
            padding: 10px;
            background-color: rgb(247, 244, 241);
        }
        td{padding-bottom: 10px;}
        table{width: 100%;}
        label{color: red;}
        input[type='text'],#email,#paswdVry,#paswd,#phone{
            width: 98%;
            height: 25px;
```

```
        }
    </style>
</head>
<script>
    document.addEventListener('DOMContentLoaded',()=>{

        document.querySelector("#card").onchange = ()=>{
            let selectElement = document.querySelector("#card");
            let selectedValue = selectElement.value;
            console.log(selectedValue);
            let inputCardNo = document.querySelector("#cardNo");
            let err_cardNo = document.querySelector("#err_cardNo");
            if(selectedValue == "American Express"){
                inputCardNo.onkeyup = ()=>{
                    console.log("nipoo");
                    let cardRegex = /^3[47]\d{13}$/;
                    console.log(cardRegex.test(inputCardNo.value));
                    if(!cardRegex.test(inputCardNo.value)){
                        err_cardNo.textContent = "Sorry! Invalide cardNo";
                    }else{err_cardNo.textContent ="";}
                }
            }else if(selectedValue == "Master Card"){
                inputCardNo.onkeyup = ()=>{
                    let cardRegex = /^5[12345]\d{14}$/;
                    console.log(cardRegex.test(inputCardNo.value));
                    if(!cardRegex.test(inputCardNo.value)){
                        err_cardNo.textContent = "Sorry! Invalide cardNo";
                    }else{err_cardNo.textContent ="";}
                }
            }else if(selectedValue == "VISA"){
                inputCardNo.onkeyup = ()=>{
                    let cardRegex = /[4]\d{12}(?:\d{3})?$/;
                    console.log(cardRegex.test(inputCardNo.value));
                    if(!cardRegex.test(inputCardNo.value)){
                        err_cardNo.textContent = "Sorry! Invalide cardNo";
                    }else{err_cardNo.textContent ="";}
                }
            }
            else if(selectedValue == "Discover"){
                inputCardNo.onkeyup = ()=>{
                    let cardRegex = /[6011]/;
                    console.log(inputCardNo.value.length);
                    if(cardRegex.test(inputCardNo.value) &&
inputCardNo.value.length ===15 || inputCardNo.value.length ===16){
```

```
                err_cardNo.textContent ="";
        }else{
                err_cardNo.textContent = "Sorry! Invalide cardNo";
        }
    }
}else if(selectedValue == "Diners Club"){
    inputCardNo.onkeyup = ()=>{
        let cardRegex = /^30[012345]/;
        console.log(inputCardNo.value.length);
        if(cardRegex.test(inputCardNo.value) &&
inputCardNo.value.length ===14 || inputCardNo.value.length ===16){

                err_cardNo.textContent ="";
        }else{
                err_cardNo.textContent = "Sorry! Invalide cardNo";
        }
    }
}


    }
    return false;
});
</script>
<body>
    <div class="containerP" style="width: 40%;">
        <h1>Regular Expression</h1>
        <hr>
        <form action="" method="post">
            <table>
                <tbody>
                    <tr>
                        <td>Card Type*</td>
                        <td><Select id="card">
                            <option value="">Please Card Type</option>
                            <option value="American Express">American
Express</option>
                            <option value="Master Card">Master Card</option>
                            <option value="VISA">VISA</option>
                            <option value="Discover">Discover</option>
                            <option value="Diners Club">Diners Club</option>
                        </Select></td>
```

```html
            </tr>
            <tr>
                <td>Card Number*</td>
                <td><input type="number" id="cardNo" placeholder="Enter
Card Number" required><br>
                <label id="err_cardNo"></label>
                </td>
            </tr>
            <tr>
                <td></td>
                <td><input type="submit" id="submit" value="SEND">
                    <input type="reset" value="CLEAR"></td>
            </tr>
        </tbody>
    </table>
</form>
</div>
</body>
</html>
```