A simple web form takes input from the user. If the number is less than 10 or greater than 30, an error message will be displayed. ANALYZE this input validation using **Java Script Validation API**. [CLO-2]

JS Validation API:
Change min or max value according to question
https://www.w3schools.com/js/js_validation_api.asp
https://www.w3schools.com/js/tryit.asp?filename=tryjs_validation_check

```html
<!DOCTYPE html>
<html>
<body>
<p>Enter a number and click OK:</p>
<input id="id1" type="number" min="10" max="30" required>
<button onclick="myFunction()">OK</button>
<p>If the number is less than 10 or greater than 30, an error message will be displayed.</p>
<p id="demo"></p>
<script>
function myFunction() {
  var inpObj = document.getElementById("id1");
  if (!inpObj.checkValidity()) {
    document.getElementById("demo").innerHTML = inpObj.validationMessage;
  } else {
    document.getElementById("demo").innerHTML = "Input OK";
  }
}
</script>
</body>
</html>
```

Q2) PHP database data inserted and email validation (MySQLi or PDO)

Q5							
(a)	Consider a web application **test.com** requiring backend connectivity. ANALYZE using either the MySQLi or PDO based object-oriented approach of PHP, how the following data can be inserted in database. Write down the relevant code. Also, do the input validation for email field. [CLO-2]					3 [6]	

User id(primary Key)	First name	Last name	Date	Email
1	John	Mike	10/07/2018	john@test.com
2	Sam	Kim	11/07/2018	sam@test.com

(b)	With the help of simple PHP form that takes three input from user "name", "password", "email" ANALYZE the difference between GET and POST PHP methods of Data submission. [CLO-2]	3 [6]

a)

```html
<!DOCTYPE html>
<html lang="en">
```

```html
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
</head>
<body>
    <form action="./submit.php" method="POST">
        <input type="text" name="email" id="email" required>
        <input type="text" name="firstname" id="firstname" required>
        <input type="text" name="lastname" id="lastname" required>
        <input type="submit" name="submit" value="Submit">
    </form>
</body>
<?php
$servername = "localhost";
$username = "username";
$password = "password";
$dbname = "myDB";

// Create connection
$conn = new mysqli($servername, $username, $password, $dbname);
// Check connection
if ($conn->connect_error) {
 die("Connection failed: " . $conn->connect_error);
}
if (isset($_POST['submit'])) {
 $fname = $_POST['firstname'];
 $lname = $_POST['lastname'];
 $email = $_POST['email'];


 if (!filter_var($email, FILTER_VALIDATE_EMAIL)) {
   $emailErr = "Invalid email format";
 }
 if (!$emailErr) {
   $sql = "INSERT INTO MyGuests (firstname, lastname, email)
   VALUES ('$fname', '$lname', '$email')";
    if ($conn->query($sql) === TRUE) {
     echo "New record created successfully";
   } else {
```

```php
        echo "Error: " . $sql . "<br>" . $conn->error;
    }
 } else {
    echo $emailErr;
 }
}

$conn->close();
?>
</html>
```

b)
getform.php

```html
 <!DOCTYPE HTML>
<html>
<body>
<form action="send.php" method="GET">
        First Name: <input type="text" name="fname"><br>
        E-mail: <input type="text" name="email"><br>
        <input type="submit">
</form>
</body>
</html>
```
…………………………………
send.php
```html
<!DOCTYPE HTML>
<html>
<body>
First Name: <?php echo $_GET["fname"]; ?><br>
Email: <?php echo $_GET["email"]; ?>
</body>
</html>
```

WebURL when using get method
http://localhost/Web/send.php?fname=John&email=john%40abc.com

WebURL when using post method
http://localhost/Web/send.php

b. Write a javascript code that ask user to enter choice from a, b or c.

    i. If user pressed 'a' then prompt user for a name and print the table of the number equals to the number of characters in user's name.

    ii. If user pressed 'b' prompt user to enter a number and print factorial of that number.

    iii. If user pressed 'c', confirmation box should appear to ask "you want to exit?" if user press ok terminate the execution else restart the execution

Solution:

```html
<script>
  function factorial(num) {
    if (num === 0) {
      return 1;
    }
    return num * factorial(num - 1);
  }
  function main() {
    let opt = prompt("Enter choice (a, b, c)");
    if (opt === "a") {
      let name = prompt("Enter your name: ");
      let num = name.length;
      for (let i = 0; i < 10; i++) {
        document.write(num + " x " + i + " = " + num * i + "<br>");
      }
    } else if (opt === "b") {
      let num = +prompt("Enter a number: ");
      document.write(factorial(num));
    } else if (opt === "c") {
      let choice = confirm("Do you want to exit?");
      if (choice) {
        return;
      } else {
        main();
      }
    }
  }
  main();
</script>
```

```
<script>
    let date = new Date();
    let txt = `${date.getHours()} : ${date.getMinutes()} :
${date.getSeconds()}`;
    alert(txt)
</script>
```

```
<form>
    <input type="text" name="name" id="name">
    <input type="password" name="password" id="password">
    <button type="submit" id="btn">Submit</button>
</form>

<script src="form.js"></script>
```

```
let btn =  document.getElementById('btn');

btn.addEventListener('click',onSubmit);

function onSubmit(e){
    e.preventDefault();
    let name= document.getElementById('name').value;
    let password = document.getElementById('password').value;
    if(!email || !password){
        document.body.innerHTML += "You have forgotten to enter email or
password";
    }else{
        if(name==="midha" && password==="123"){
            document.body.innerHTML += "Welcome"+name;
        }else{
```

```
            document.body.innerHTML += "Wrong email or password";
        }
    }
}
```

First name: [First name]

Last name: [Last name]

Email: [example@yahoo.com]

```
let btn =  document.getElementById('btn');

btn.addEventListener('click',onSubmit);

function onSubmit(e){
    e.preventDefault();
    let email = document.getElementById('email').value;
    let myArray = email.split('@')[0].split('');
    document.body.innerHTML += JSON.stringify(myArray);
}
```

Q5:a)Describe at least any three HTTP Messages with description. [5 Marks]
b) A *'Book'* is JavaScript object having properties *Title, Publisher & Author*. Write down code to create an object named *'myBook'* of type Book object, assign values to it properties and have function named '*myProperties*' that display all the properties of the '*myBook*' object. [6 Marks]

```
function Book(title, publisher, author) {
  this.title = title;
  this.publisher = publisher;
  this.author = author;

}
```

```javascript
Book.prototype.myProperties = function(){
    console.log(`${this.title} , ${this.publisher} , ${this.author}`)
}


let myBook = new Book('Harry','MidsEditor','MidhaTahir')


myBook.myProperties();
```

```javascript
class Book {
  constructor(title,publisher,author) {
    this.title = title;
    this.publisher = publisher;
    this.author = author;
  }
  myProperties() {
    console.log(this.title+" "+this.publisher+" "+this.author)
  }
}


var book1 = new Book("Larry","Harry","Danny")
book1.myProperties()
```

Input form validation:
```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <link rel="stylesheet" href="Form.css">
    <title>My Form</title>
</head>
<body>
    <h2>My Company</h2>
    <form>
        <p>
            <label for="name">Name: </label>
            <input type="text" required maxlength="30"  id="name">
        </p>
```

```html
        <p>
            <label for="email">Email: </label>
            <input type="email" placeholder="hspro@gmail.com"
pattern="[a-z0-9._%+-]+@[a-z0-9.-]+\.[a-z]{2,}$" required id="email">
        </p>
        <p>
            <label for="comments">Comments: </label>
            <textarea id="comments" cols="30" rows="5" required
placeholder="Not more than 500 words" maxlength="500"></textarea>
        </p>
        <p>
            <label for="date">Date: </label>
            <input type="date"required  id="date">
        </p>
        <p>
            <input type="submit" value="Submit">
        </p>
    </form>
</body>
</html>
```