WEB TECHNOLOGY AND MOBILE APPLICATION

REGISTRATION NUMBER: 231501102

DEPT AND SECTION: AIML- "FA"

SUBJECT CODE : AI234231

2)

Write JavaScript to validate the following fields of the Registration page.
a) First Name (Name should contains alphabets and the length
Should not be less than 6 characters).
b) Password (Password should not be less than 6 characters length).
c) E-mail id (should not contain any invalid and must follow the

standard pattern name@domain.com)
d) Mobile Number (Phone number should contain 10 digits only).
e) Last Name and Address (should not be Empty).

AIM:

To validate the user inputs on the Registration page, ensuring that the first name, password, email, mobile number, last name, and address fields meet specific criteria such as length, format, and non-emptiness. This ensures accurate data collection and enhances security.

SOURCE CODE:

a) First Name (Name should contains alphabets and the length Should not be less than 6 characters).

```
function validateFirstName() {
  var firstName = document.getElementById('firstName').value;
  var namePattern = /^[A-Za-z]+$/; // Only allows alphabets


  // Check if the first name contains only alphabets and is at least 6 characters long
  if (firstName.length < 6) {
    alert("First Name must be at least 6 characters long.");
    return false;
  }
  if (!namePattern.test(firstName)) {
    alert("First Name should contain only alphabets.");
    return false;
  }
  return true;
}
```

SOURCE CODE:

b) Password (Password should not be less than 6 characters length).

```javascript
function validatePassword() {
  var password = document.getElementById('password').value;


  // Check if the password length is at least 6 characters
  if (password.length < 6) {
     alert("Password must be at least 6 characters long.");
     return false;
  }
  return true;
}
```

SOURCE CODE:

c) E-mail id (should not contain any invalid and must follow the

standard pattern name@domain.com)

```javascript
function validateEmail() {
  var email = document.getElementById('email').value;
  var emailPattern = /^[a-zA-Z0-9._%+-]+@[a-zA-Z0-9.-]+\.[a-zA-Z]{2,}$/; // Standard email pattern


  // Check if the email matches the standard pattern
  if (!emailPattern.test(email)) {
```

```
    alert("Please enter a valid email address (e.g., name@domain.com).");
    return false;
  }
  return true;
}
```

SOURCE CODE:

d) Mobile Number (Phone number should contain 10 digits only).

```
function validateMobileNumber() {
  var mobileNumber = document.getElementById('mobileNumber').value;
  var mobilePattern = /^[0-9]{10}$/; // Only 10 digits


  // Check if the mobile number contains exactly 10 digits
  if (!mobilePattern.test(mobileNumber)) {
    alert("Please enter a valid mobile number with exactly 10 digits.");
    return false;
  }
  return true;
}
```

SOURCE CODE:

e) Last Name and Address (should not be Empty).

```javascript
function validateLastNameAndAddress() {
  var lastName = document.getElementById('lastName').value;
  var address = document.getElementById('address').value;


  // Check if the Last Name and Address are not empty
  if (lastName.trim() === "") {
     alert("Last Name cannot be empty.");
     return false;
  }
  if (address.trim() === "") {
     alert("Address cannot be empty.");
     return false;
  }
  return true;
}
```

RESULT:

The JavaScript validation ensures that the First Name contains only alphabets and is at least 6 characters long, the Password is at least 6 characters, the E-mail follows the standard format (name@domain.com), the Mobile Number contains exactly 10 digits, and both the Last Name and Address fields are not empty.

OUTPUT: