Assignment 6

Q. Perform the events using javascript onclick, onmousewheel, onload, onselect, oninput, oninvalid, onreset, onselect, onsubmit, oncut, onpaste, oncopy, resist (cut, copy, paste)

Index.html

```html
<!DOCTYPE html>
<html lang="en">
<head>
   <meta charset="UTF-8">
   <meta name="viewport" content="width=device-width, initial-scale=1.0">
   <title>Javascript Event Handling</title>
</head>
<body onload="handleLoad()">
   <h1> Perform the events using javascript</h1>
   <h2>onclick</h2>
   <p><button onclick="handleClick(this)">Click</button></p><hr>
   <h2>onmousewheel</h2>
   <p>
     <div
     <div style="height: 100px; width: 100px; background: green;" onwheel = "handleMouseWheel" >
MouseWheel </div>
   </p><hr>
   <h2>onload</h2>
   <p>Reload page to see</p><hr>
   <h2>onselect, oninput, oninvalid, onreset, onsubmit</h2>
   <p>
     <form onreset="handleReset()" onsubmit="handleSubmit()">
       <input type="text" onselect="handleSelect()" oninput="handleInput(this)" oninvalid="handleInvalid()"
oncut="handleCut()" oncopy="handleCopy()"  onpaste="handlePaste()" required>
       <input type="reset"><input type="submit">
     </form>
   </p><hr>
   <h2>resist (cut, copy, paste)</h2>
   <p>
     <input size="50" type="text"
       value="You can't cut, copy, paste this text"
       oncopy="return false"
       oncut="return false"
       onpaste="return false"
       onmousedown="return false"
     />
   </p>
   <script src="script.js"></script>
</body>
</html>
```

./script.js

```javascript
function handleClick(element){alert('You have clicked the button');}
function handleMouseWheel(element){alert('You have Mouse Wheel event over the green div');}
function handleLoad(element){ alert('Document is loaded');}
function handleSelect(){ alert("you have select the text inside input box");}
function handleInput(element){alert(`you have entered ${element.value} inside input box`);}
function handleInvalid(){alert('Invalid input type');}
function handleReset(){alert('Form is reset');}
```

```
function handleInvalid(){alert('Form is submitted');}

function handleCut(){ alert('Input text is cut');}
function handleCopy(){ alert('Input text is copied');}
function handlePaste(){ alert('Something is pasted at input box');}
```

Output:

Q. Perform Form Validation using Javascript

Index.html
```html
<!DOCTYPE html>
<html lang="en">
<head>
   <meta charset="UTF-8">
   <meta name="viewport" content="width=device-width, initial-scale=1.0">
   <title>Form Validation</title>
   <link rel="stylesheet" href="style.css">
</head>
<body>
   <h1>Form Validation using JS</h1>
   <form id="myform">
     <div>
       <label for="name">Name: </label><input id="name" name="name" type="text"/>
       </div>
     <div><label for="email">Email: </label><input id="email" name="email" type="email"/></div>
     <div><label for="password">Password: </label>
       <input id="password" name="password" type="password"/><button type="button"
onclick="togglePassword()">Toggle</button>
     </div><input type="submit"></form>
```

```html
    <script src="script.js"></script>
</body>
</html>
```

./script.js
```javascript
const myForm = document.getElementById('myform');
myForm.addEventListener('submit', function(e){
   const formData = new FormData(myForm);
   // Check if name is not empty
   const name = formData.get('name');
   if(name.trim() === ''){
      alert("Name can't be empty");
      e.preventDefault();
   }
   // check if the email is valid
   let emailRegex = /^[a-zA-Z0-9._%+-]+@[a-zA-Z0-9.-]+\.[a-zA-Z]{2,}$/;
   const email = formData.get('email');
   if(!emailRegex.test(email)){
      alert('Enter valid email');
      e.preventDefault();
   }
   // check if the password is strong
   let pwdRegex = /^(?=.*\d)(?=.*[!@#$%^&*])(?=.*[a-z])(?=.*[A-Z]).{8,}$/;
   const password = formData.get('password');
   if(!pwdRegex.test(password)){
      alert('Check Password Format-> minimum Length: 8, only digit, small letters, capital letters, space are
allowed');
      e.preventDefault();
   }
})
function togglePassword(){
   const pwd = document.getElementById('password');
   if(pwd.type === 'text'){
      pwd.type = 'password';
   }else{
      pwd.type = 'text';
   }
}
```

Output: