

Software Testing and Quality Assurance

2CSDE80

Roll No.: 21BCE325

PRACTICAL 8: To demonstrate regression-based testing using Watir tool.

Index.html

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Radio and Checkbox Test</title>
  <link rel="stylesheet" href="styles.css">
</head>
<body>
  <h1>Radio Buttons and Checkboxes</h1>

  <form action="#">
    <fieldset>
      <legend>Choose a color:</legend>
      <label>
        <input type="radio" name="color" value="red"> Red
      </label>
```

```
<label>
  <input type="radio" name="color" value="green"> Green
</label>
<label>
  <input type="radio" name="color" value="blue"> Blue
</label>
</fieldset>

<fieldset>
  <legend>Select your hobbies:</legend>
  <label>
    <input type="checkbox" name="hobbies" value="reading"> Reading
  </label>
  <label>
    <input type="checkbox" name="hobbies" value="sports"> Sports
  </label>
  <label>
    <input type="checkbox" name="hobbies" value="traveling"> Traveling
  </label>
</fieldset>

  <button type="submit">Submit</button>
</form>
</body>
</html>
```

Styles.css:

```
body {  
    font-family: Arial, sans-serif;  
    background-color: #f4f4f4;  
    margin: 20px;  
    padding: 20px;  
}
```

```
h1 {  
    color: #333;  
}
```

```
fieldset {  
    border: 1px solid #ccc;  
    padding: 15px;  
    margin-bottom: 20px;  
}
```

```
legend {  
    font-weight: bold;  
}
```

```
label {  
    display: block;  
    margin: 5px 0;
```

```
}
```

```
button {  
  background-color: #4CAF50;  
  color: white;  
  border: none;  
  padding: 10px 20px;  
  cursor: pointer;  
}
```

```
button:hover {  
  background-color: #45a049;  
}
```

Test.rb water file:

```
require 'watir'
```

```
# Initialize browser
```

```
browser = Watir::Browser.new :chrome
```

```
# Open the HTML file
```

```
browser.goto 'file:///C:/Users/VRAJ/OneDrive/Desktop/watir/index.html'
```

```
# Wait for the page to load
```

```
sleep 2
```

```
# Select a radio button (Red) and ensure it's set
if browser.radio(name: 'color', value: 'red').exists?
  browser.radio(name: 'color', value: 'red').set
else
  puts "Radio button 'Red' not found!"
end
```

```
# Wait for 50 seconds
sleep 50
```

```
# Check both checkboxes (Reading and Traveling) and ensure they're set
if browser.checkbox(name: 'hobbies', value: 'reading').exists?
  browser.checkbox(name: 'hobbies', value: 'reading').set
else
  puts "Checkbox 'Reading' not found!"
end
```

```
if browser.checkbox(name: 'hobbies', value: 'traveling').exists?
  browser.checkbox(name: 'hobbies', value: 'traveling').set
else
  puts "Checkbox 'Traveling' not found!"
end
```

```
# Wait for 50 seconds
sleep 50
```

Click the submit button if it exists

if browser.button(type: 'submit').exists?

browser.button(type: 'submit').click

else

puts "Submit button not found!"

end

Sleep for 5 seconds to observe the result before closing the browser

sleep 5

Close the browser

browser.close

