Team Number: **Date:**

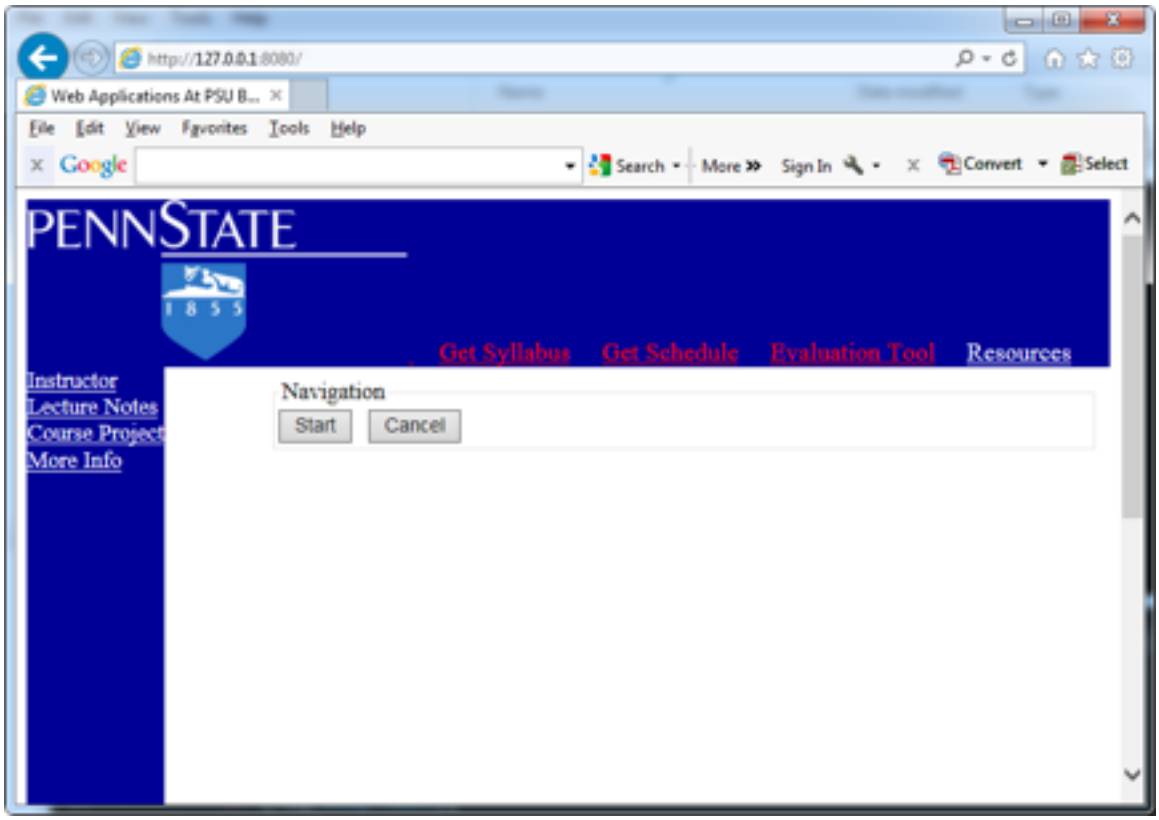
Lab Exercise: Evaluation Tool

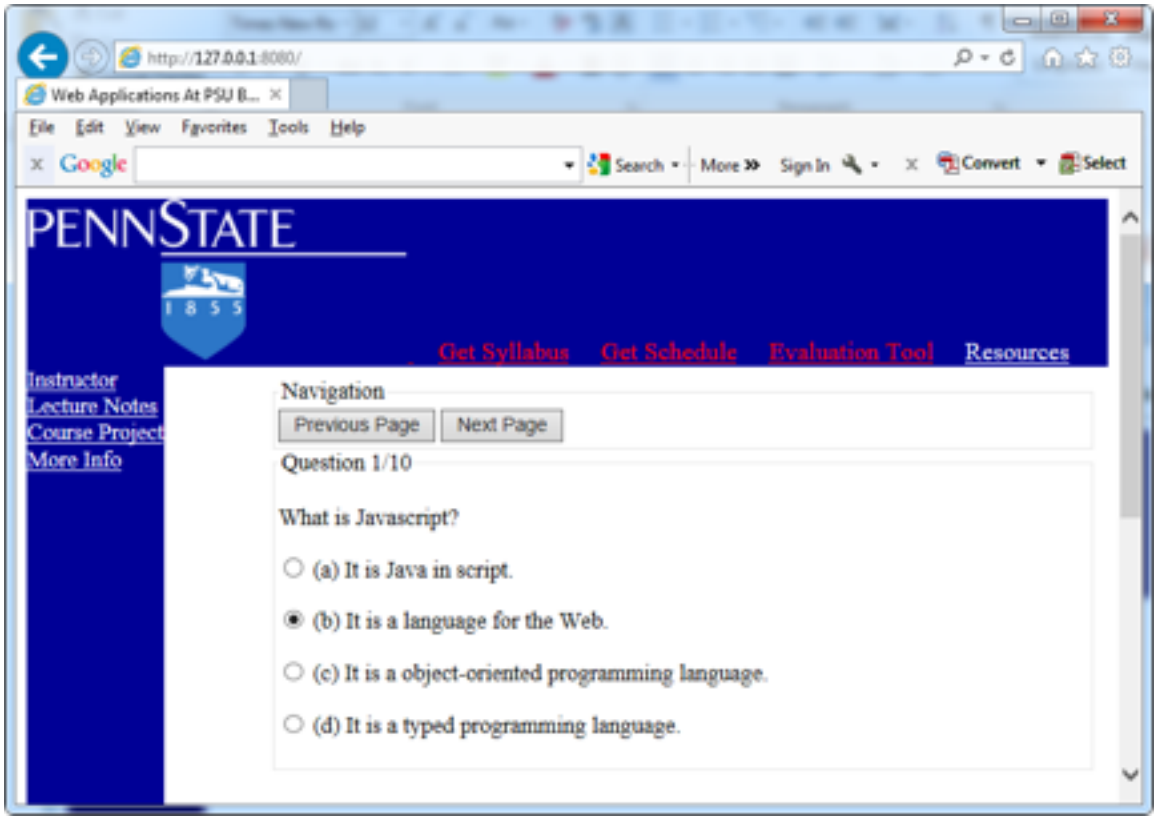
Lab Objectives

You will practice:

1. Javascript Event-handling;
2. Client-side storage
3. Form submission
4. Server side processing

Description of the Problem

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Question 1/10
What is Javascript?
(a) It is Java in script.
(b) It is a language for the Web.
(c) It is a object-oriented programming language.
(d) It is a typed programming language.


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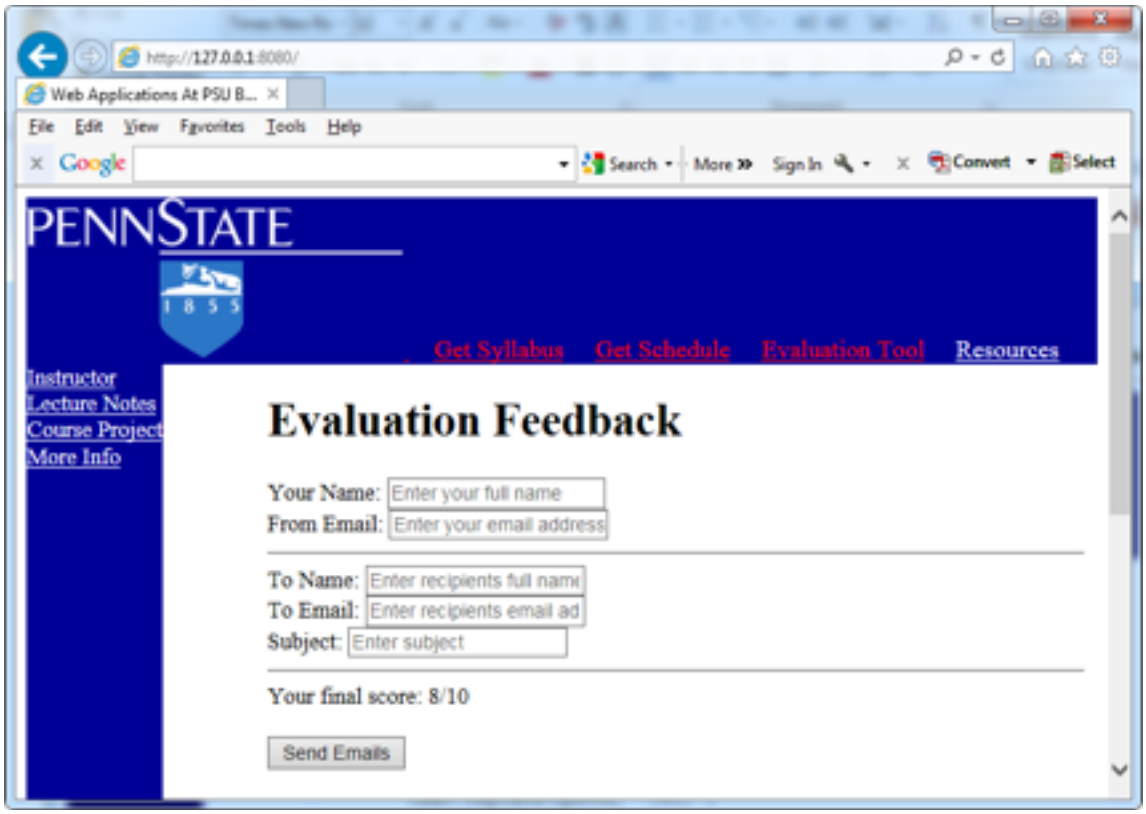
Question 10/10
What is the output of the following Javascript code?
var text = 'This is my "first" and "second" test!';
var quote = /"([^"]+)"/g;
text.replace(quote, '{$1}')
(a) This is my "first" and "second" test!.
(b) This is my [first] and [second] test!.
(c) This is my ^first^ and ^second^ test!.



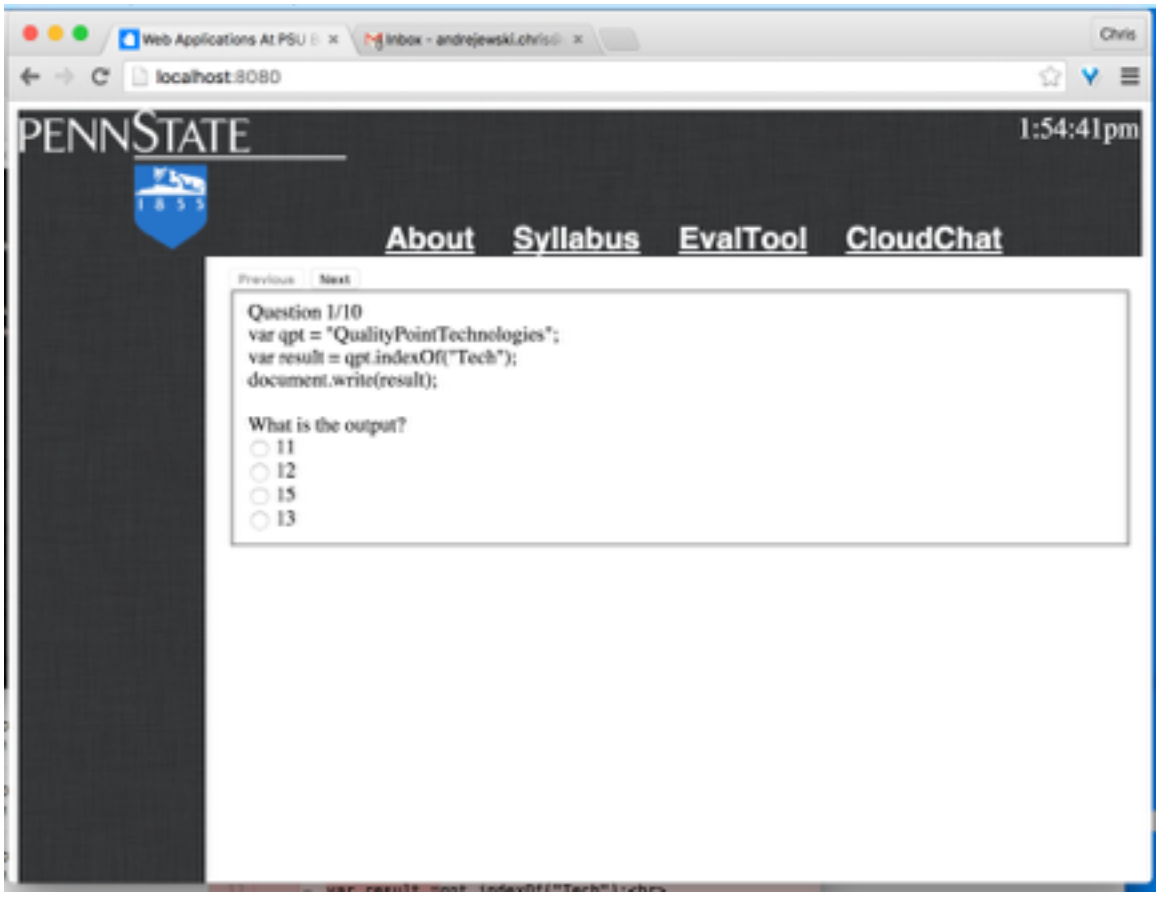
1. [**10 points**] Server side organization: use /EvalTool as the subfolder for this functionality.
2. [**20 points**] The 10 questions have to be genuine questions about Javacript skills. One team member may be designated to design those questions. You should also know the correct answers because your server needs to check the correctness of a user's answers.
3. [**10 points**] For this lab, you can create 10 static html pages for the 10 questions to be used. In the future, you will learn better approaches to managing those questions (say, dynamically create question pages from information stored in DB).
4. [**20 points**] Server-side scripting: server should monitor the testing progress, and keep a record for the current user's answers. In response to a user's navigation request, the server should handle the web flows correctly.
5. [**20 points**] As the user navigates back and forth, the user should be able to see his/her answers, if he/she has made a choice before. It should allow a user to change his/her answers.
    a. To implement this feature, you may store the user's answers on the client side. You can try any other techniques that you know of.
    b. Upon the new question page loading complete, script should set the corresponding radio button checked.

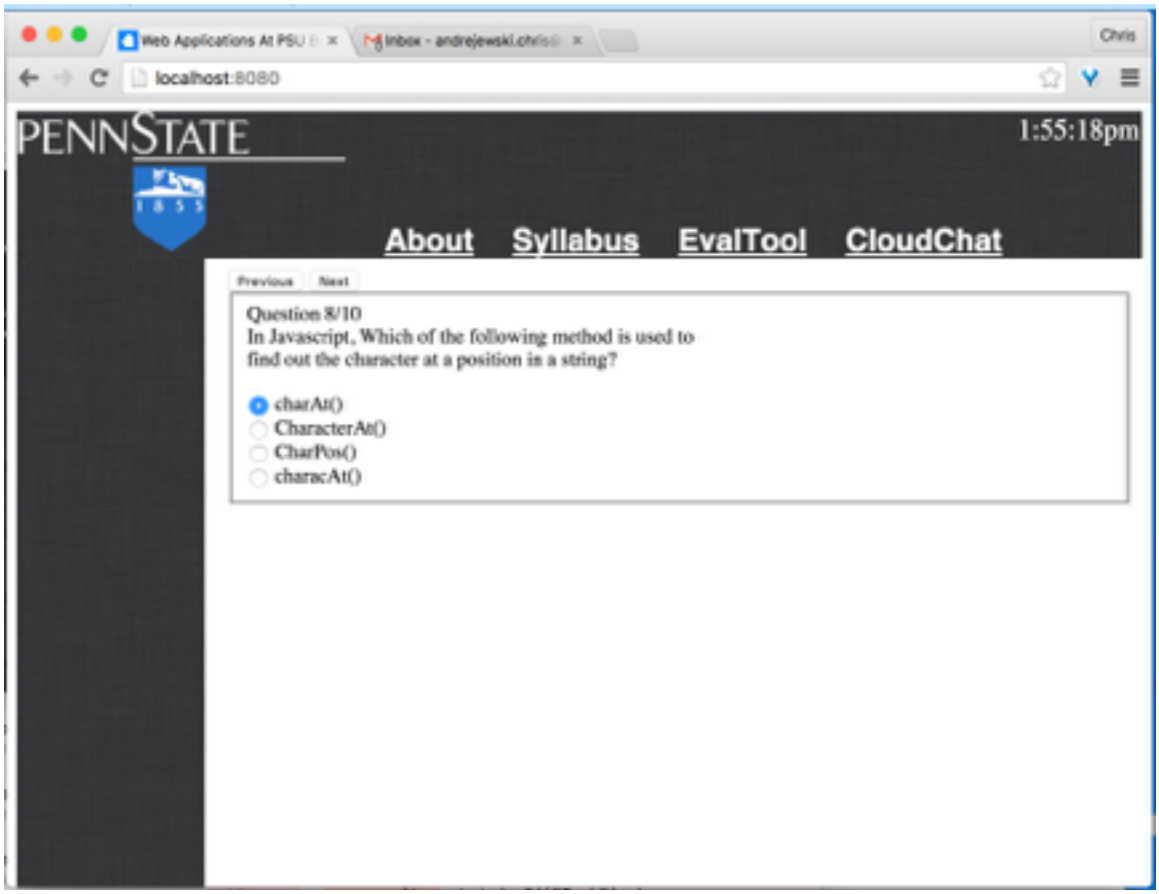
6. [**10 points**] The user cannot see his/her score until after the 10th question has been answered. While the user is on the 1st question page, the "Previous page" button should be disabled. While the user is on the 10th question page, the "Next page" button should be changed to "Submission".
7. [**10 points**] In the evaluation feedback page, the user should be able to email his/her score to himself/herself as well as to the instructor.

Lab Submission:

1. **Provide individual performance in the table below (performance factor is a real number between 0.0 and 1.0, individual grade is lab grade times his/her performance factor)**

Student Name	Performance factor
Chris Andrejewski	**0.34**
Adam Meanor	**0.33**
Jordan LaRiccia	**0.33**

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Chris
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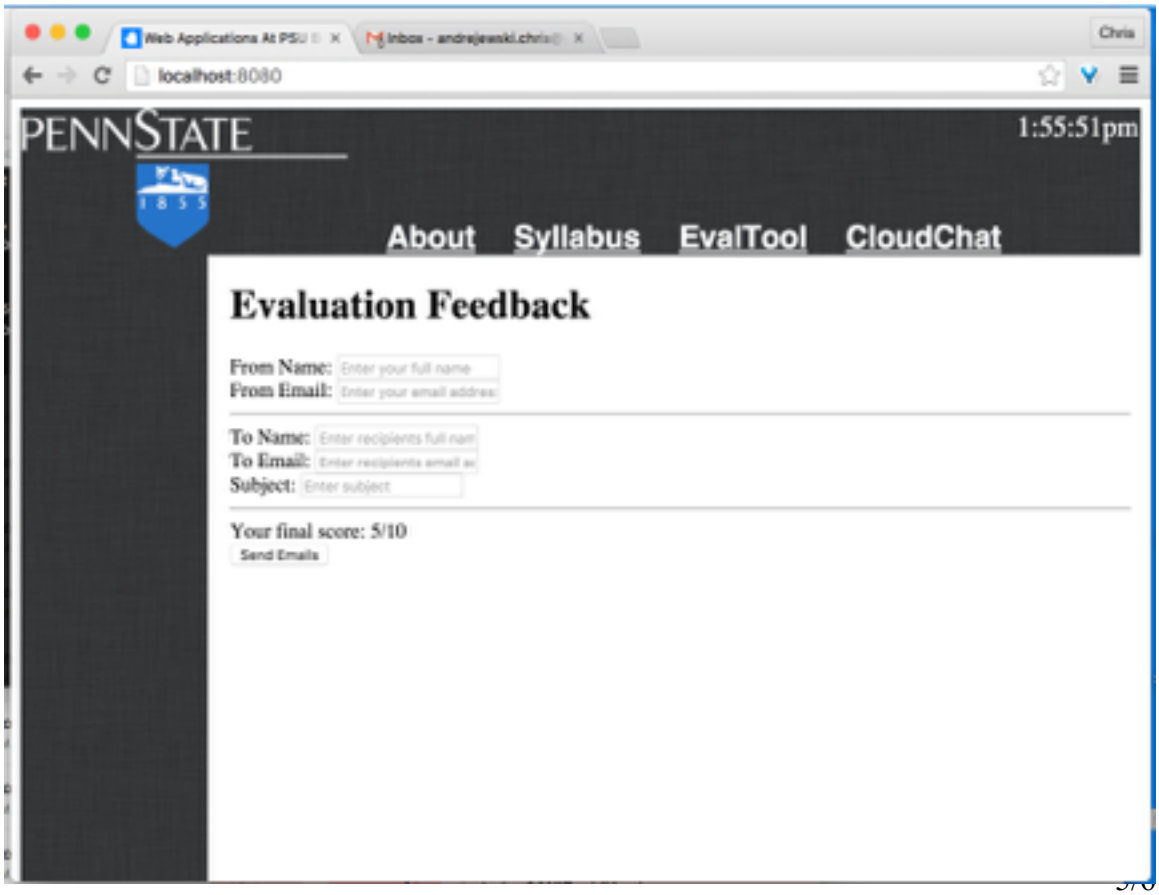
Question 8/10
In Javascript, Which of the following method is used to find out the character at a position in a string?
charAt()
CharacterAt()
CharPos()
characAt()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From Name:
From Email:
To Name:
To Email:
Subject:
Your final score: 5/10
Send Emails

2. Paste a few screenshots inside this lab report to demonstrate how it works.
3. Save this report to a PDF file with the name **CSSE-WEB-Lab-4-Team-X.pdf, where X is your team number**;
4. Submit to StepStone. Your submission should be one zip file with the name **CSSE-WEB-Lab-4-Team-X.zip** (where **X** is your team number) that includes:
    a. **CSSE-WEB-Lab-4-Team-X.pdf**;
    b. The Website folder, excluding the sub-folder node_modules generated by npm;