Presidential Initiative for Artificial Intelligence and Computing (PIAIC)

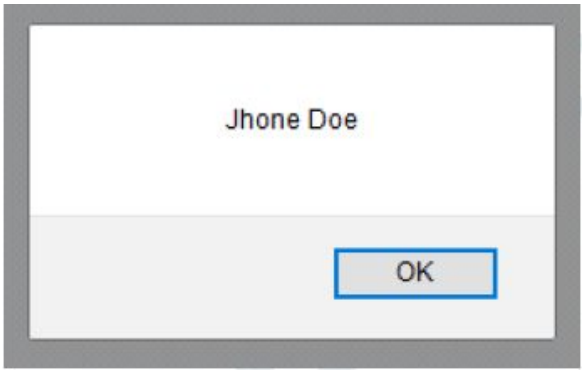
https://www.piaic.org

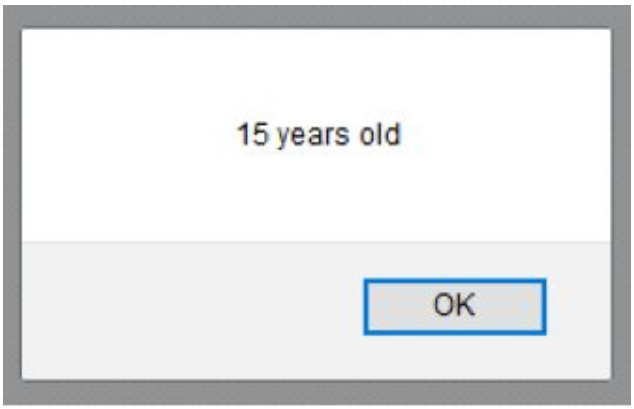
JavaScript Programming Assignment 1

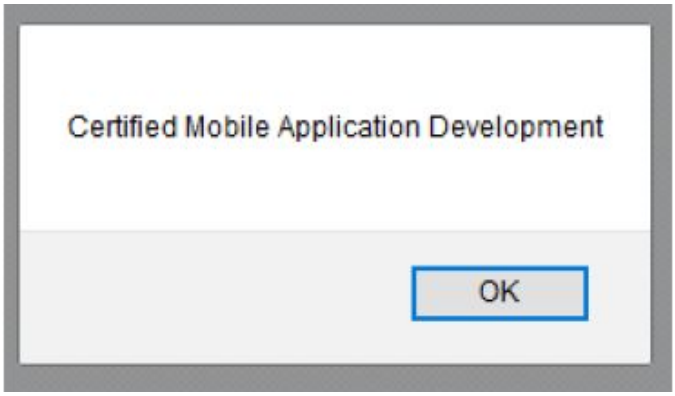
Note: Check Rules end of document

1. Write a script to display the following message on your web page: (Hint : Use line break)

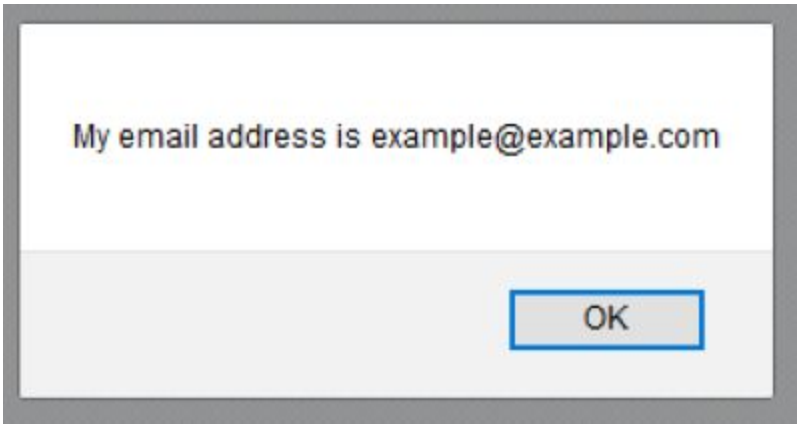
2. Write a script to save student's bio data in JS variables and show the data in alert boxes.







3. Declare a variable called email and assign to it a string that represents your Email Address(e.g. example@example.com). Show the below mentioned message in an alert box.(Hint: use string concatenation)



4. Write a script to display this in browser through JS

5. Declare a variable called age & assign to it your age. Show your age in an alert box.

6. Declare a variable called birthYear & assign to it your birth year. Show the following message in your browser:

7. Display this in your browser

a. A heading stating “Rules for naming JS variables”
b. Variable names can only contain _____, _____,
c. _____ and _____.
d. For example $my_1stVariable.
e. Variables must begin with a _____, _____ or
f. _____. For example $name, _name or name
g. Variable names are case _____
h. Variable names should not be JS _____

8. Write a program that takes two numbers & add them in a new variable. Show the result in your browser.

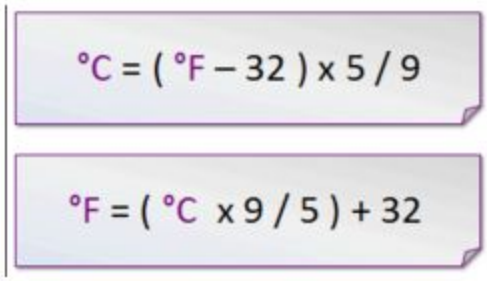
9. Repeat task 8 for subtraction, multiplication, division & modulus.

10. Do the following using JS Mathematic Expressions
    a. Declare a variable.
    b. Show the value of variable in your browser like “Value after variable declaration is: ??”.
    c. Initialize the variable with some number.
    d. Show the value of variable in your browser like “Initial value: 5”.
    e. Increment the variable.
    f. Show the value of variable in your browser like “Value after increment is: 6”.
    g. Add 7 to the variable.
    h. Show the value of variable in your browser like “Value after addition is: 13”.
    i. Decrement the variable.
    j. Show the value of variable in your browser like “Value after decrement is: 12”.
    k. Show the remainder after dividing the variable’s value by 3.
    l. Output : “The remainder is : 0”.

Value after variable declaration is undefined
Initial value: 5
Value after increment is: 6
Value after addition is: 13
Value after decrement is: 12
The remainder is: 0

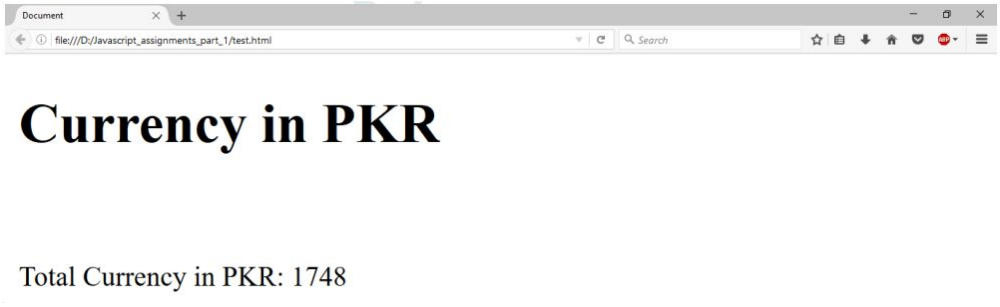
11. The Temperature Converter: It's hot out! Let's make a converter based on the steps here.
    a. Store a Celsius temperature into a variable.
    b. Convert it to Fahrenheit & output "NºC is NºF".
    c. Now store a Fahrenheit temperature into a variable.
    d. Convert it to Celsius & output "NºF is NºC".

Conversion Formulae:

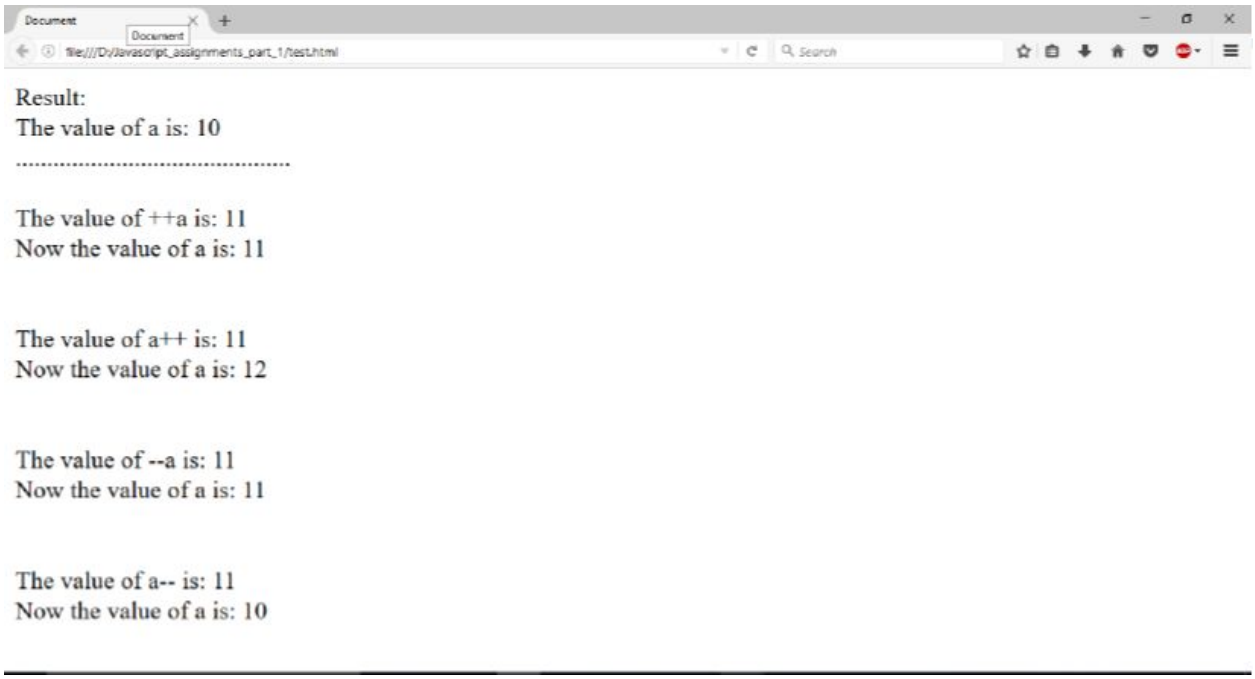


25^0C is 77ºF
70^0F is 21.111111111111111ºC

12. Assume we have 10 US dollars & 25 Saudi Riyals. Write a script to convert the total currency to Pakistani Rupees. Perform all calculations in a single expression. (Exchange rates : 1 US Dollar = 155 Pakistani Rupee and 1 Saudi Riyal = 41 Pakistani Rupee)



13. Write a program to take a number in a variable, do the required arithmetic to display the following result in your browser:



14. What will be the output in variables **a, b & result** after execution of the following script:

var a = 2, b = 1;
var result = --a - --b + ++b + b--;
Explain the output at each stage:
--a;
--a - --b;
--a - --b + ++b;
--a - --b + ++b + b--;

Rules for Assignment completion and submission

1) Each task should be in separate file
2) Files name should be the task name e.g task1, task2, task 3
    a) task1.html
    b) task1.js
3) You should upload your code on GitHub or google drive and share link for code review
4) All files in assignment should be in one folder and folder name should contains assignment number e.g assignment1_YourRollNo, assignment2_YourRollNo
    a) Create a folder
    b) Add all tasks file in this assignment folder
    c) Push code on github or upload folder on google drive
    d) Share github url or drive url for code review