

Presidential Initiative for Artificial Intelligence and Computing (PIAIC)

https://www.piaic.org

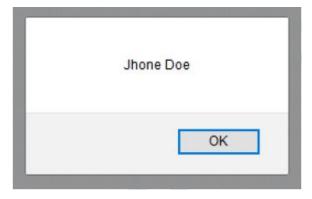
JavaScript Programming Assignment 1

Note: Check Rules end of document

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

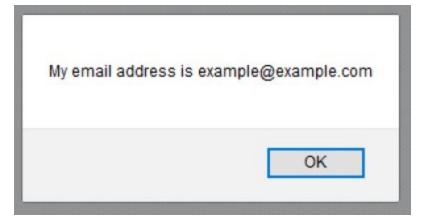


2. Write a script to save student's bio data in JS variables and show the data in alert boxes.





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



Yah! I can write HTML content through JavaScript

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.



Sum of 3 and 5 is 8

- 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.
 - 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.
 - I. 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 "N°C is N°F".
 - c. Now store a Fahrenheit temperature into a variable.
 - d. Convert it to Celsius & output "N°F is N°C".

Conversion Formulae:



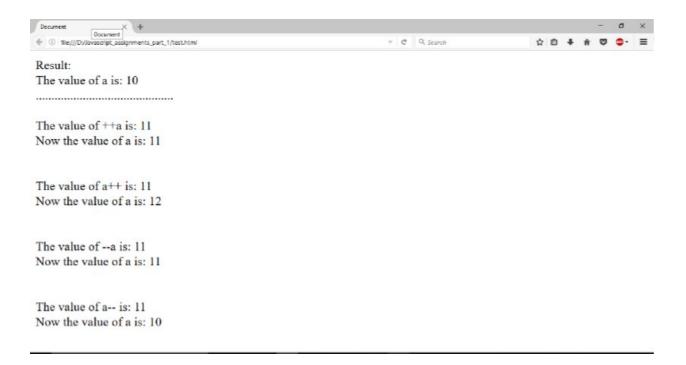
25^oC is 77°F 70^oF is 21.111111111111111°C 12. Assume we have 10 US dollars & 25 Saudi Riyals. Write a script to convert the total currency to Pakistani Rupees. Perform all calculations in a single expression. (Exchange rates : 1 US Dollar = 155 Pakistani Rupee and 1 Saudi Riyal = 41 Pakistani Rupee)



Currency in PKR

Total Currency in PKR: 1748

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--;
```



b is ??

result is ??

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