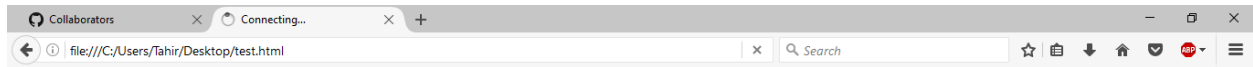


# MATH EXPRESSIONS

Assignment # 5  
JAVASCRIPT

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



Sum of 3 and 5 is 8

2. Repeat task1 for subtraction, multiplication, division & modulus.
3. 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

4. Cost of one movie ticket is 600 PKR. Write a script to store ticket price in a variable & calculate the cost of buying 5 tickets to a movie. Example output:



Total cost to buy 5 tickets to a movie is 3000PKR

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5. Write a script to display multiplication table of any number in your browser. E.g



Table of 4

$$4 \times 1 = 4$$

$$4 \times 2 = 8$$

$$4 \times 3 = 12$$

$$4 \times 4 = 16$$

$$4 \times 5 = 20$$

$$4 \times 6 = 24$$

$$4 \times 7 = 28$$

$$4 \times 8 = 32$$

$$4 \times 9 = 36$$

$$4 \times 10 = 40$$

e-sign-live - [D:\heroku\recipient\_original\e-sign-live] -  
D:\Javascript\_assignments\_part\_1\test.html - WebStorm  
2016.2.4

6. **The Temperature Converter:** It's hot out! Let's make a converter based on the steps here.
- Store a Celsius temperature into a variable.
  - Convert it to Fahrenheit & output "NN°C is NN°F".
  - Now store a Fahrenheit temperature into a variable.
  - Convert it to Celsius & output "NN°F is NN°C".

Conversion Formulae:

$$^{\circ}\text{C} = ( ^{\circ}\text{F} - 32 ) \times 5 / 9$$

$$^{\circ}\text{F} = ( ^{\circ}\text{C} \times 9 / 5 ) + 32$$



25<sup>0</sup>C is 77<sup>0</sup>F

70<sup>0</sup>F is 21.11111111111111<sup>0</sup>C

7. Write a program to implement checkout process of a shopping cart system for an e-commerce website. Store the following in variables

- a. Price of item 1
- b. Price of item 2
- c. Ordered quantity of item 1
- d. Ordered Quantity of item 2
- e. Shipping charges

Compute the total cost & show the receipt in your browser.



## Shopping Cart

Price of item 1 is 650  
Quantity of item 1 is 3  
Price of item 2 is 100  
Quantity of item 2 is 7  
Shipping Charges 100

Total cost of your order is 2750

8. Store total marks & marks obtained by a student in 2 variables. Compute the percentage & show the result in your browser



# Marks Sheet

Total marks: 980

Marks obtained: 804

Percentage: 82.0408163265306%

9. 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 = 104.80 Pakistani Rupee**  
and **1 Saudi Riyal = 28 Pakistani Rupee**)



# Currency in PKR

Total Currency in PKR: 1748